

FIG. 1A

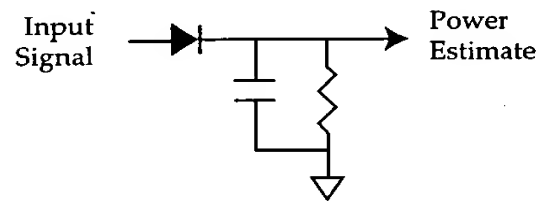


FIG. 1B

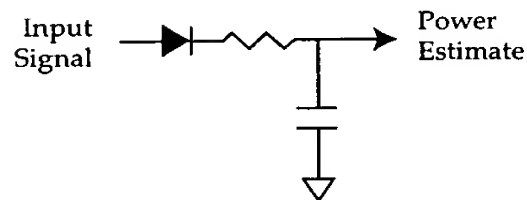


FIG. 1C

006211 6922260

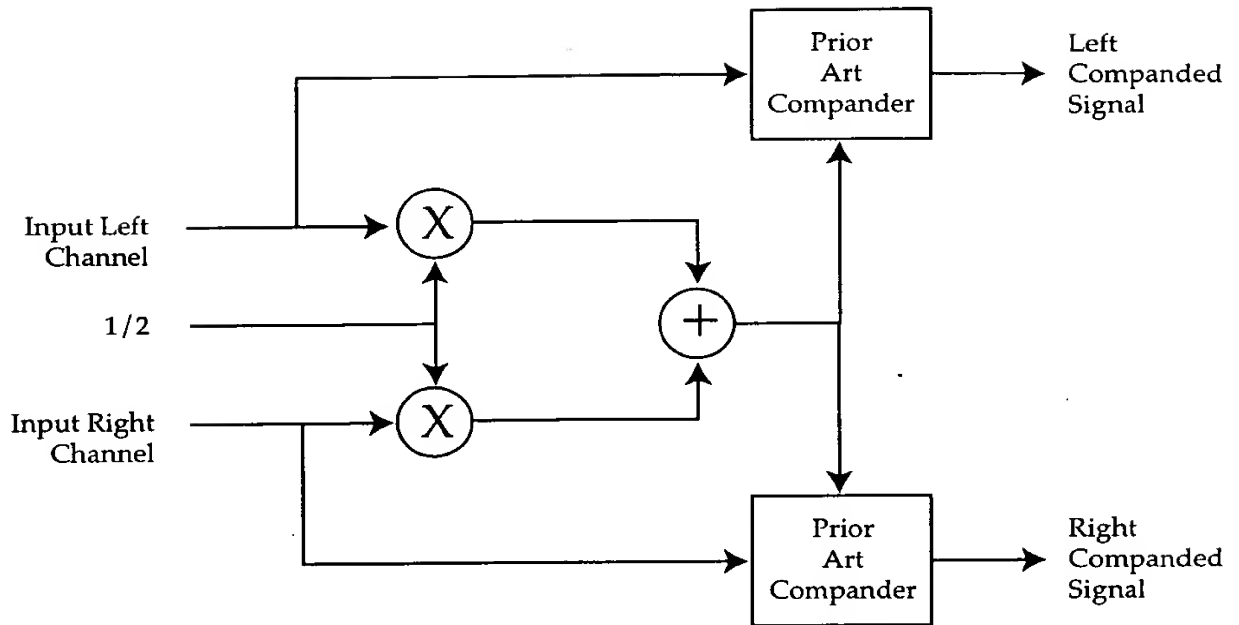


FIG. 1D

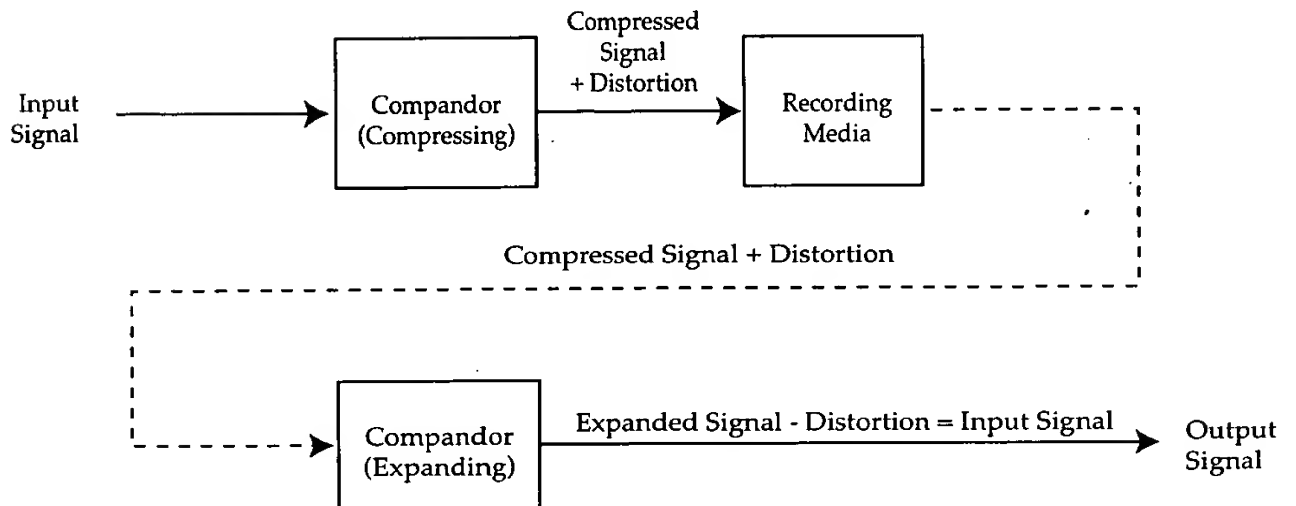


FIG. 1E

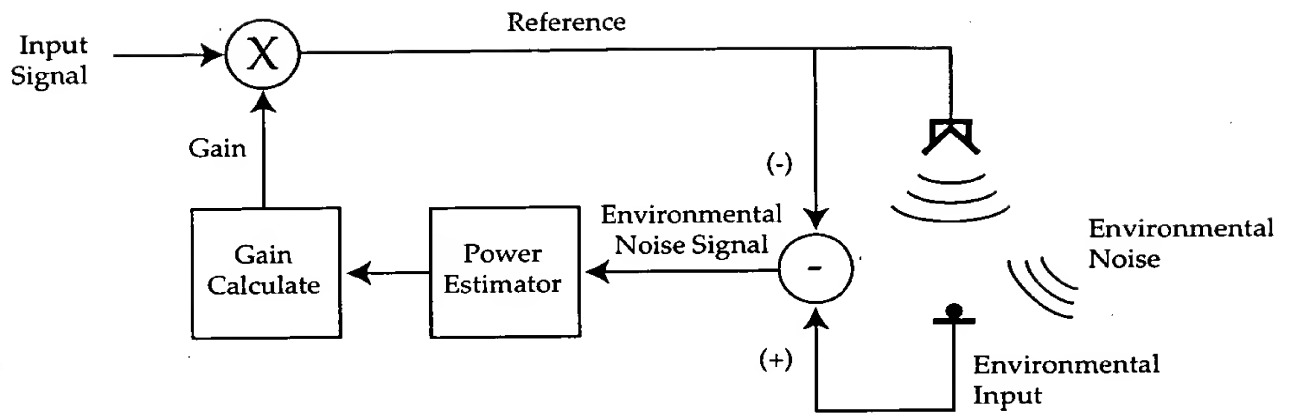


FIG. 2

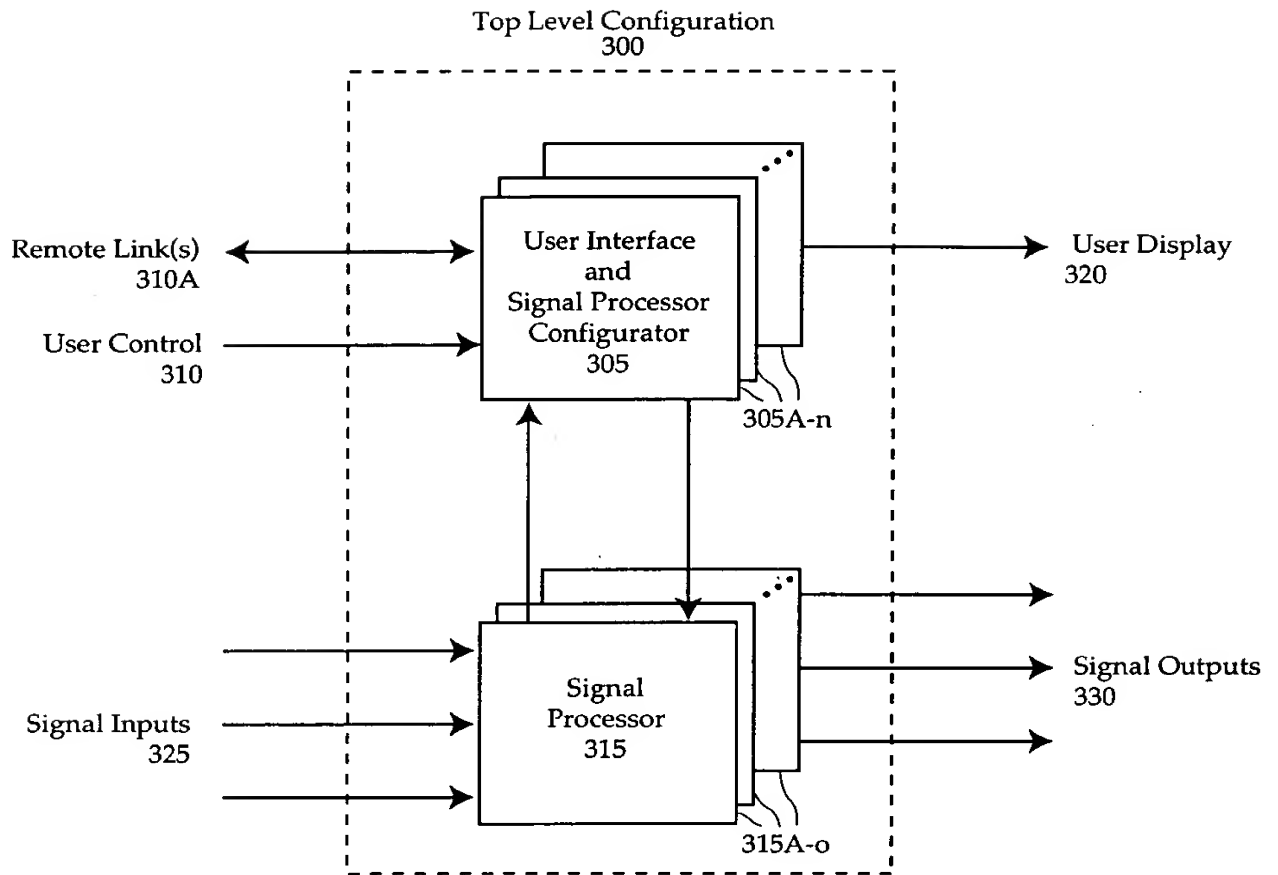


FIG. 3A

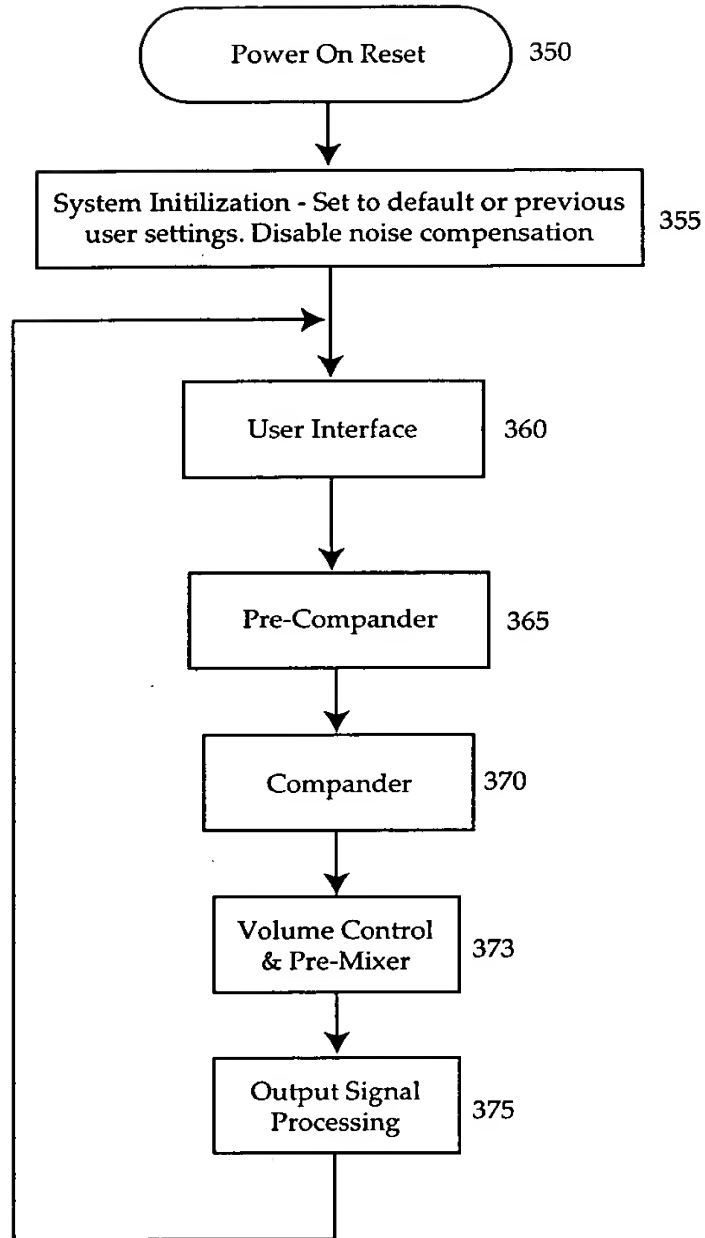


FIG. 3B

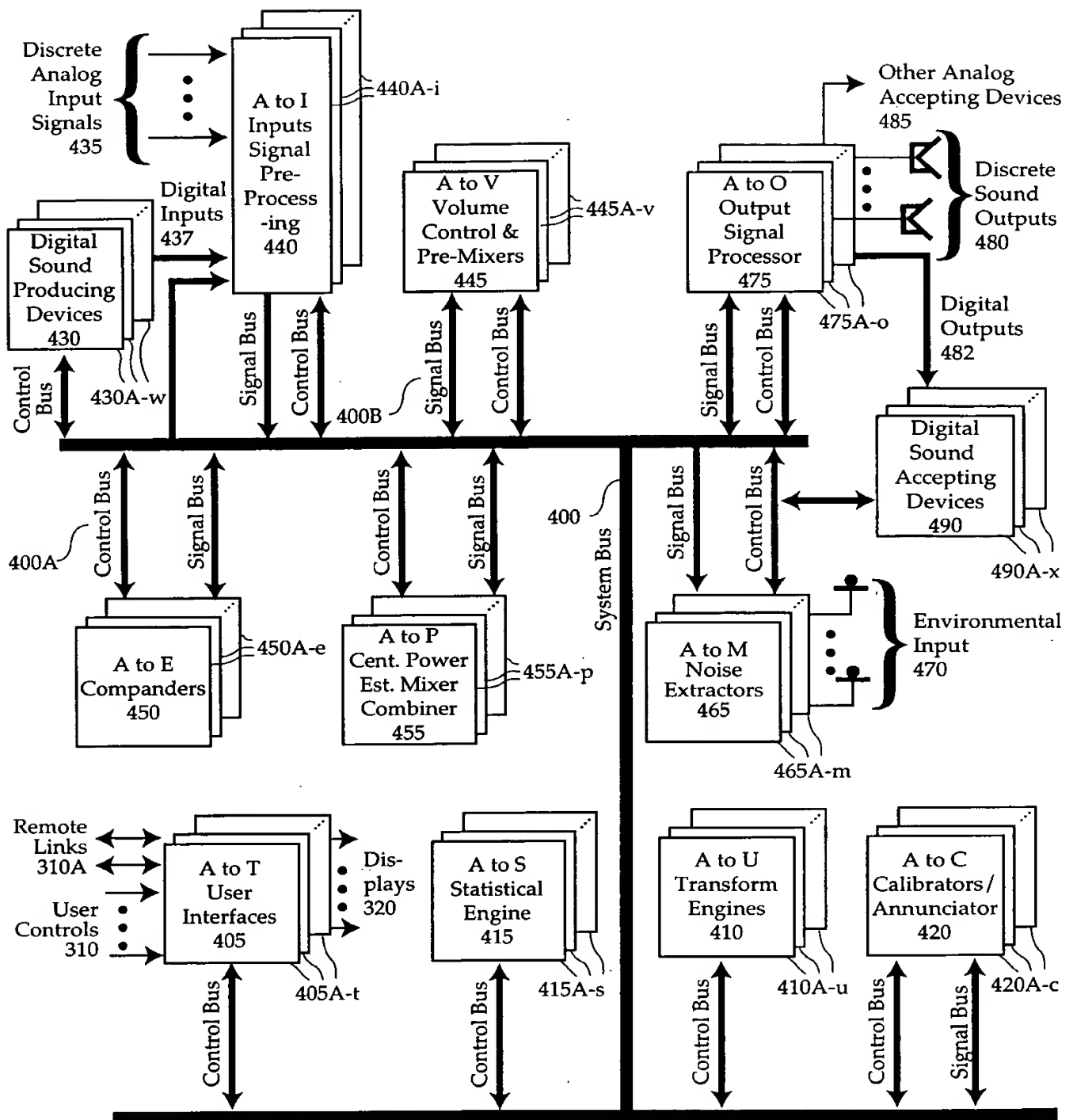


FIG. 4

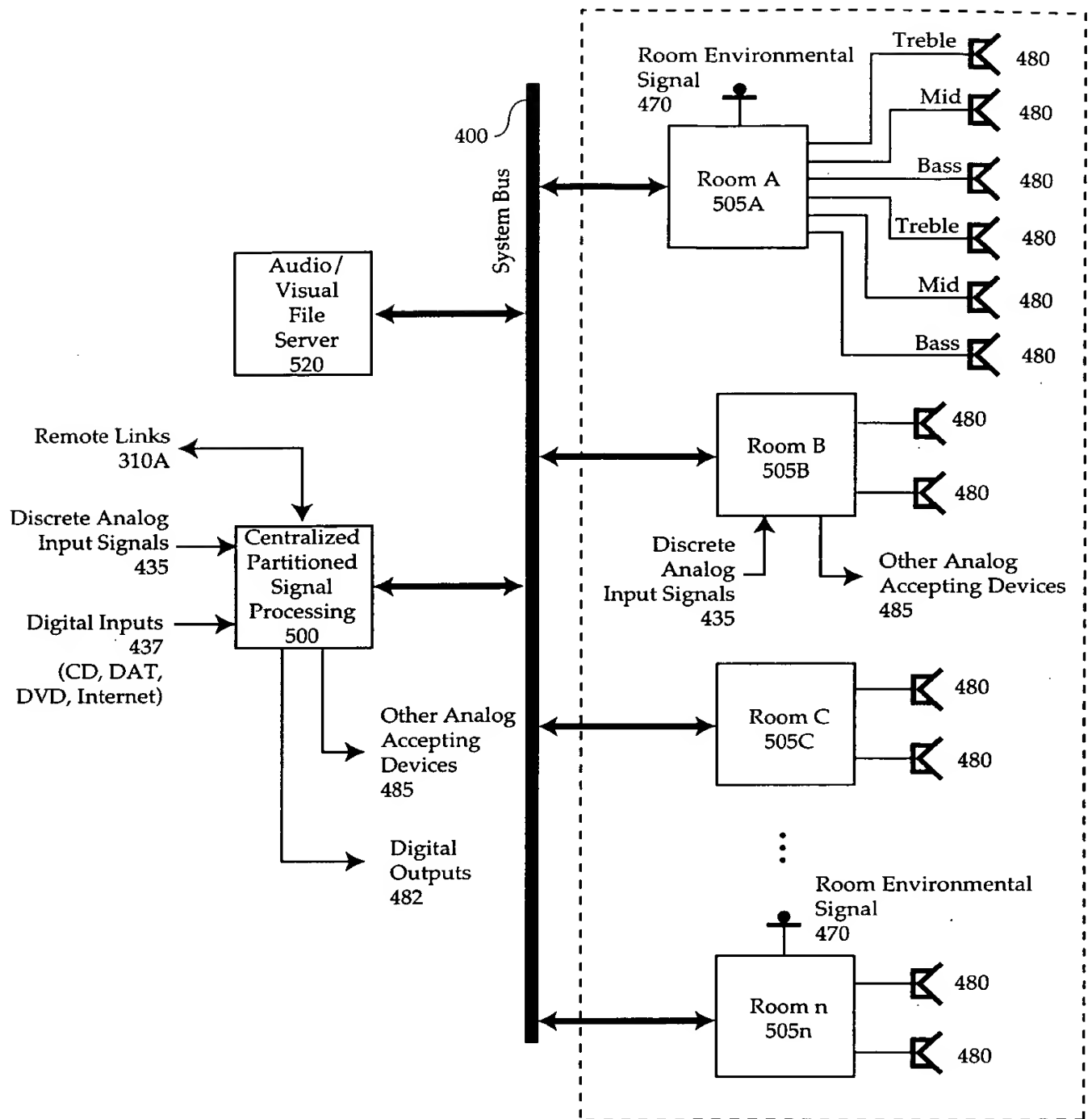


FIG. 5A

505

006211 6922260

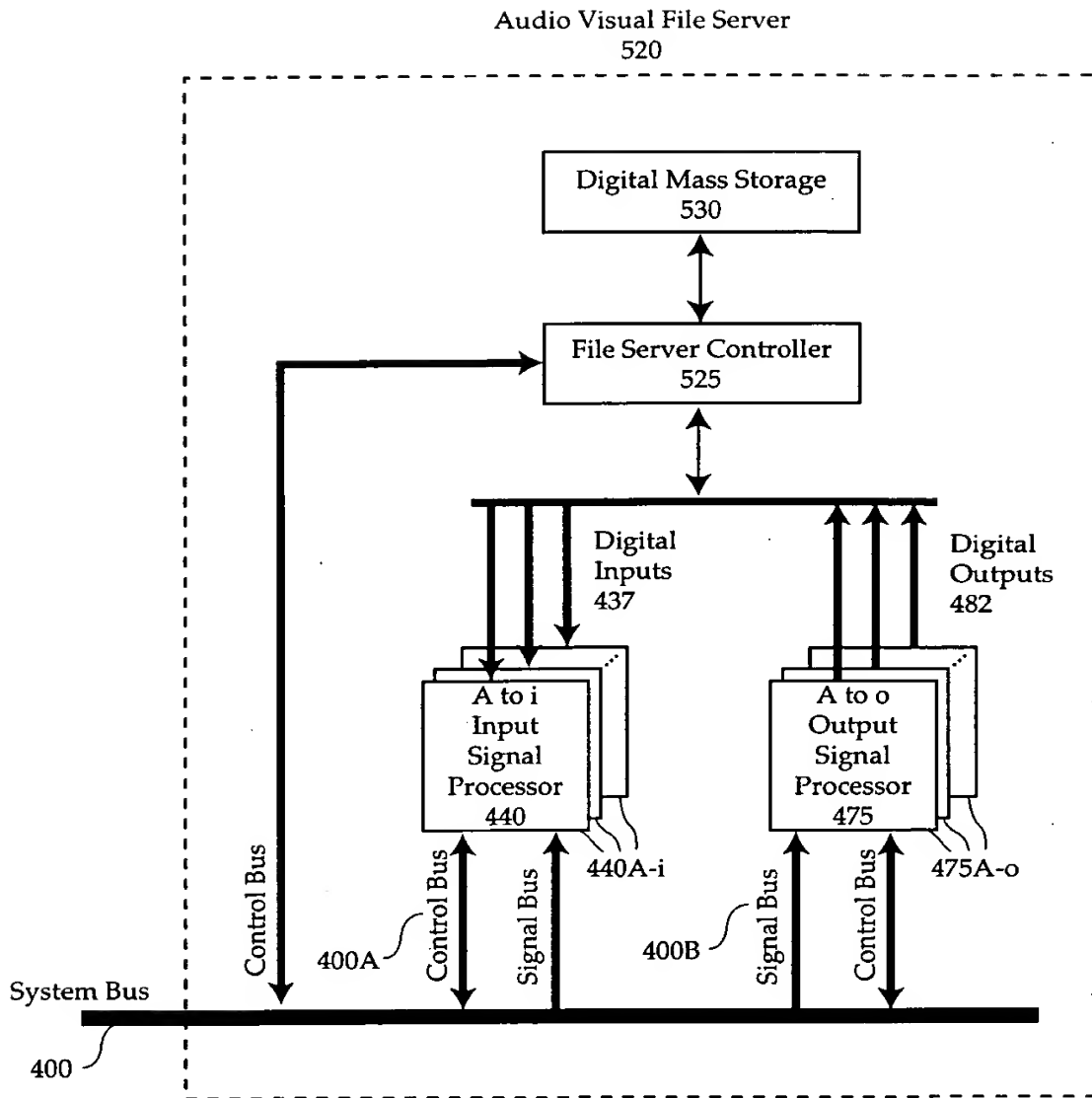


FIG. 5B

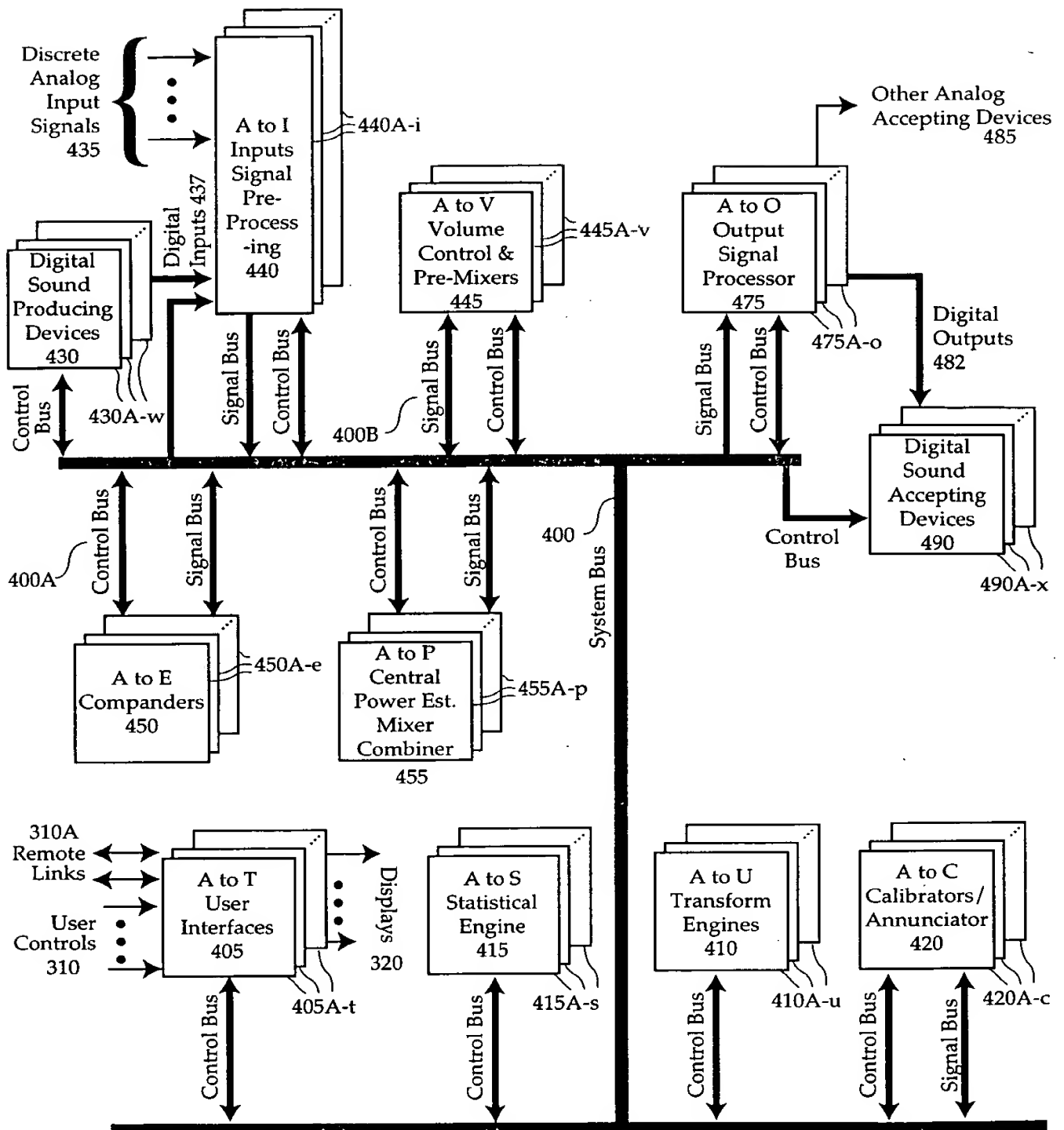


FIG. 5C

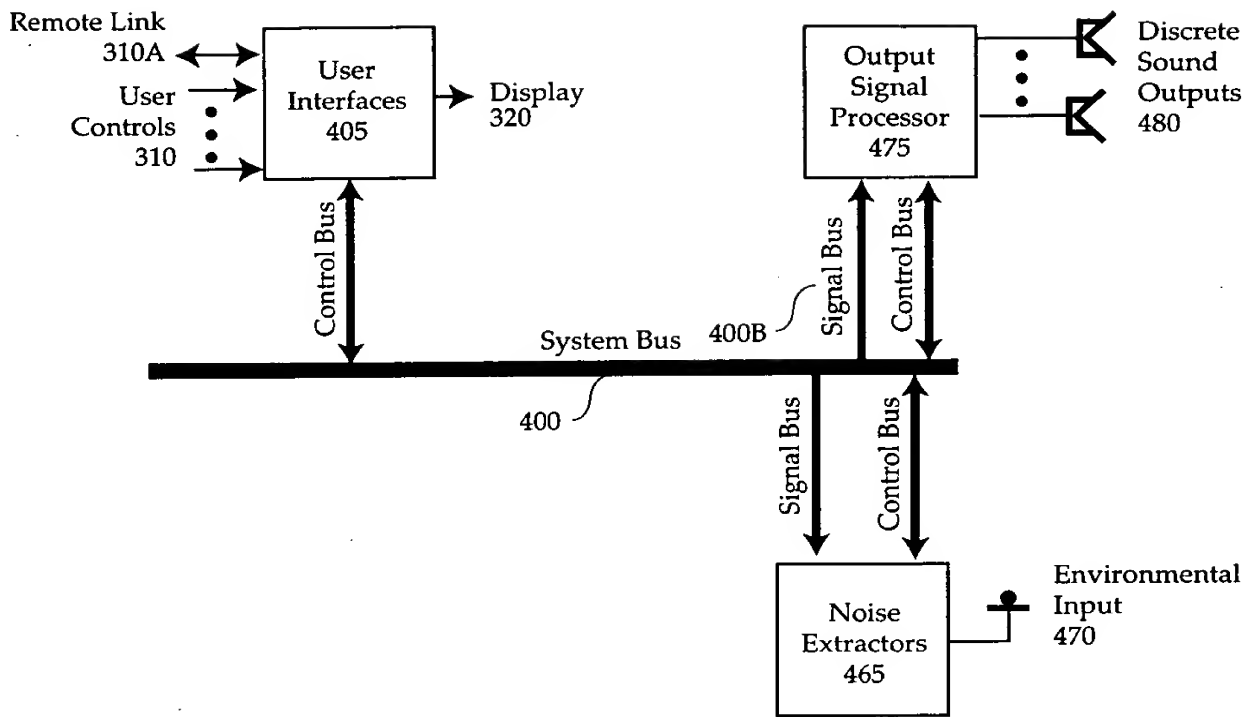


FIG. 5D

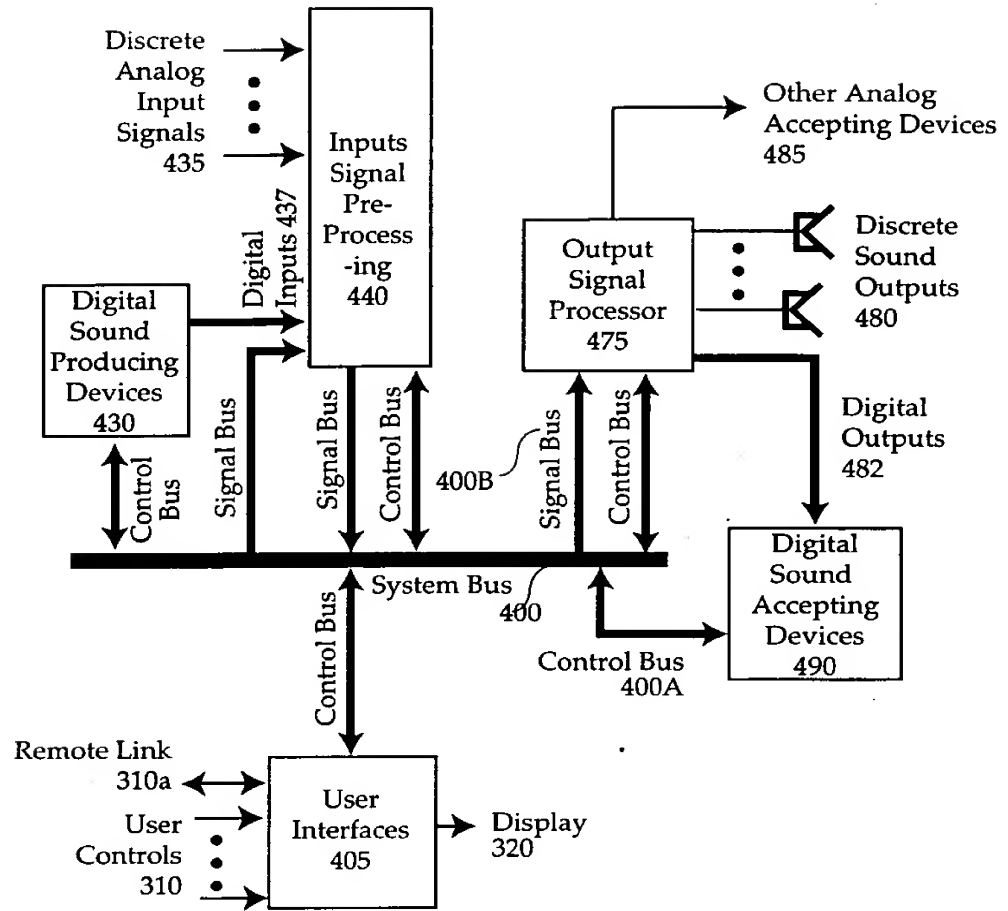


FIG. 5E

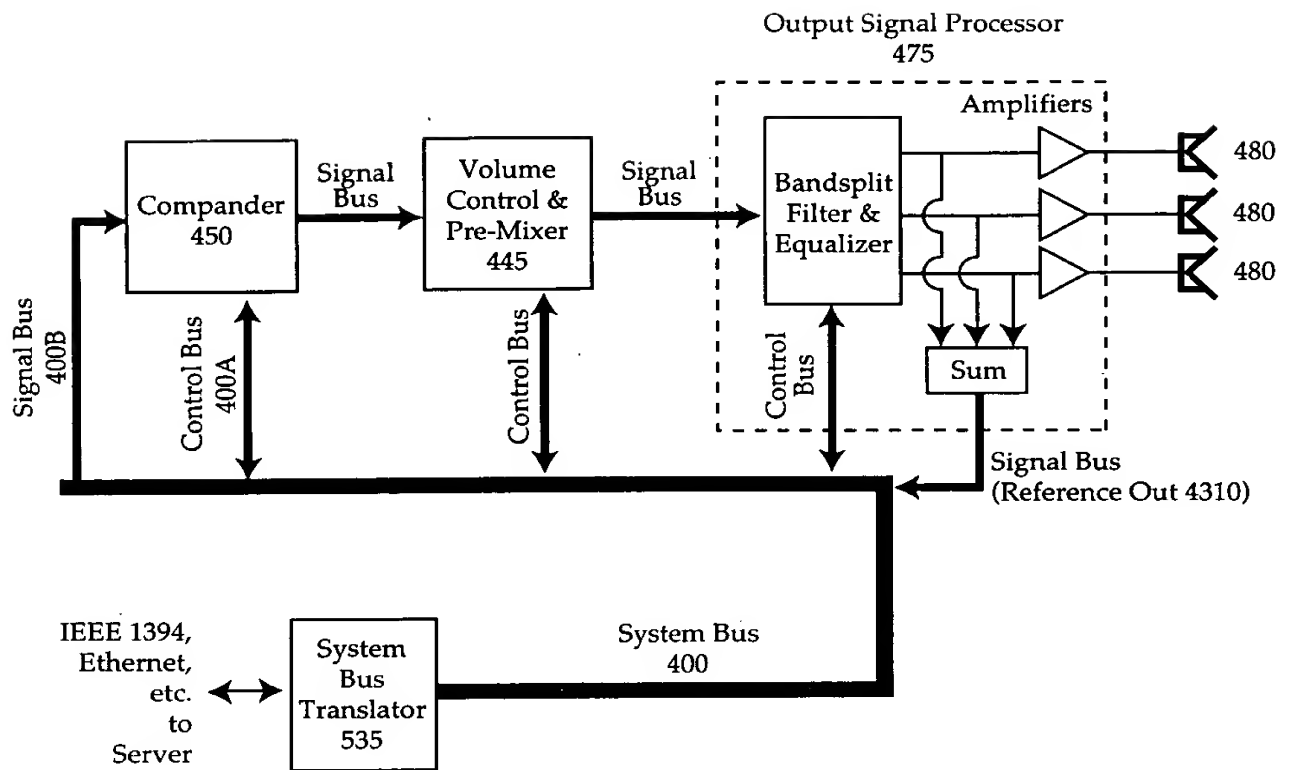


FIG. 5F

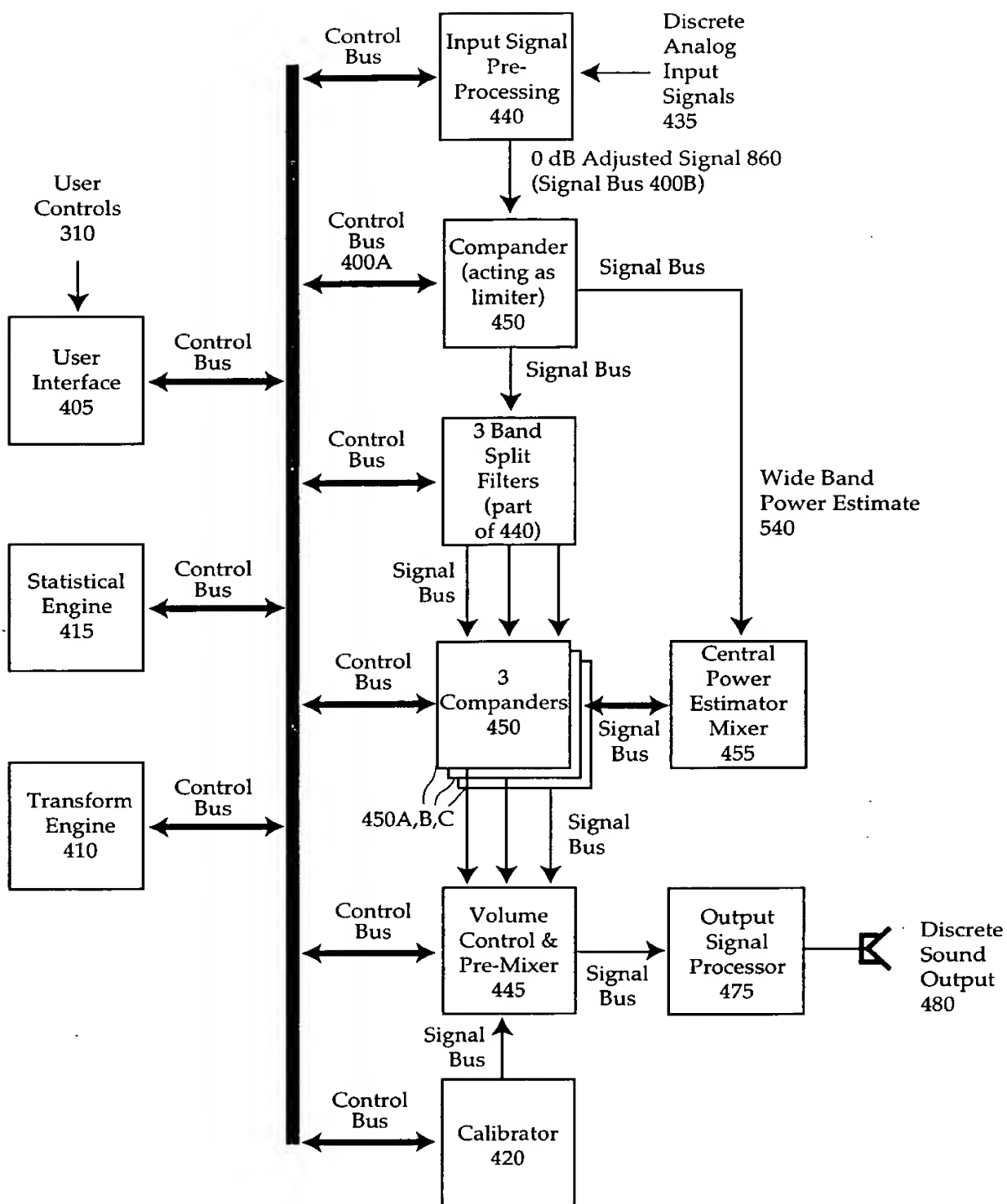


FIG. 5G

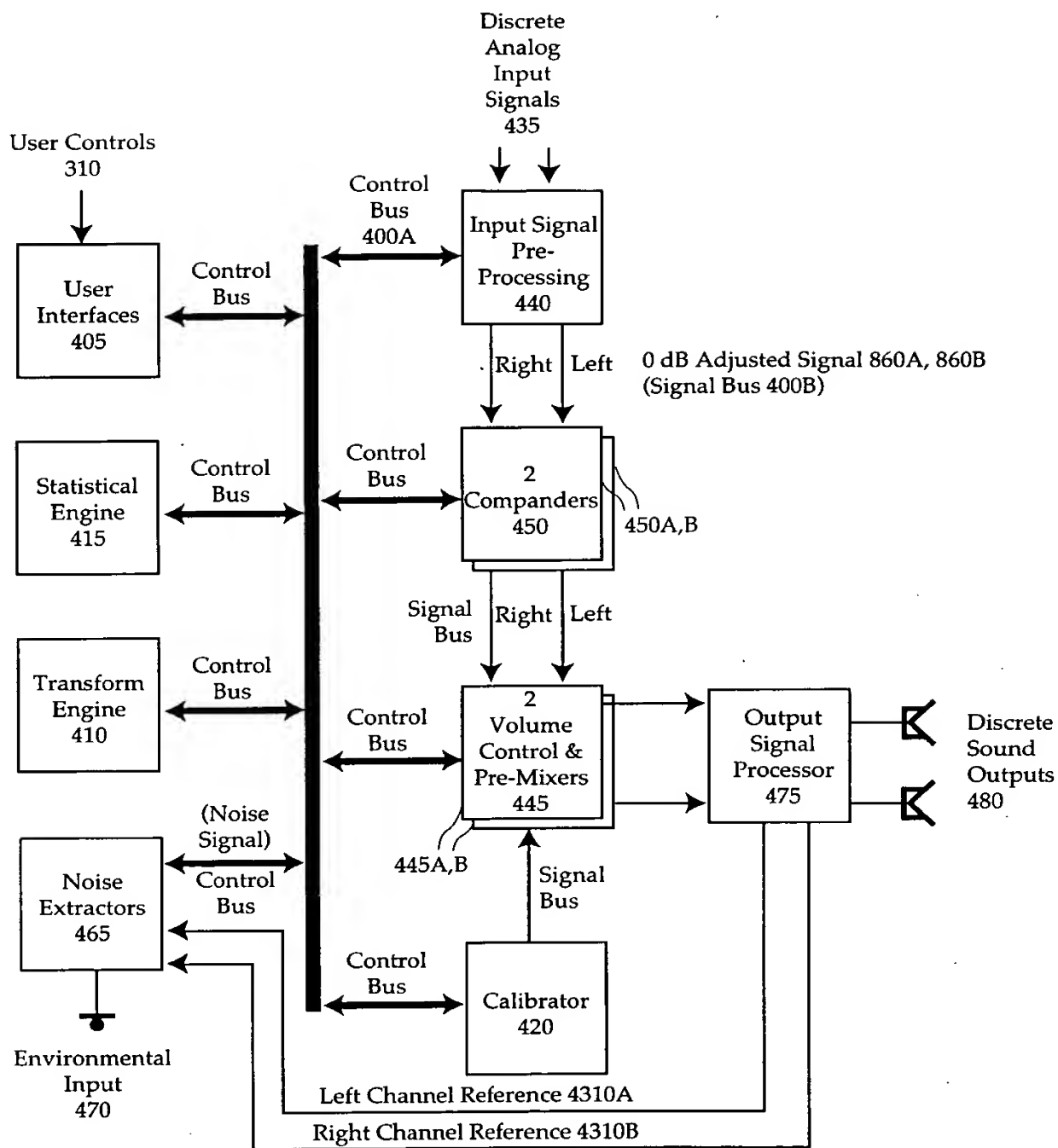


FIG. 5H

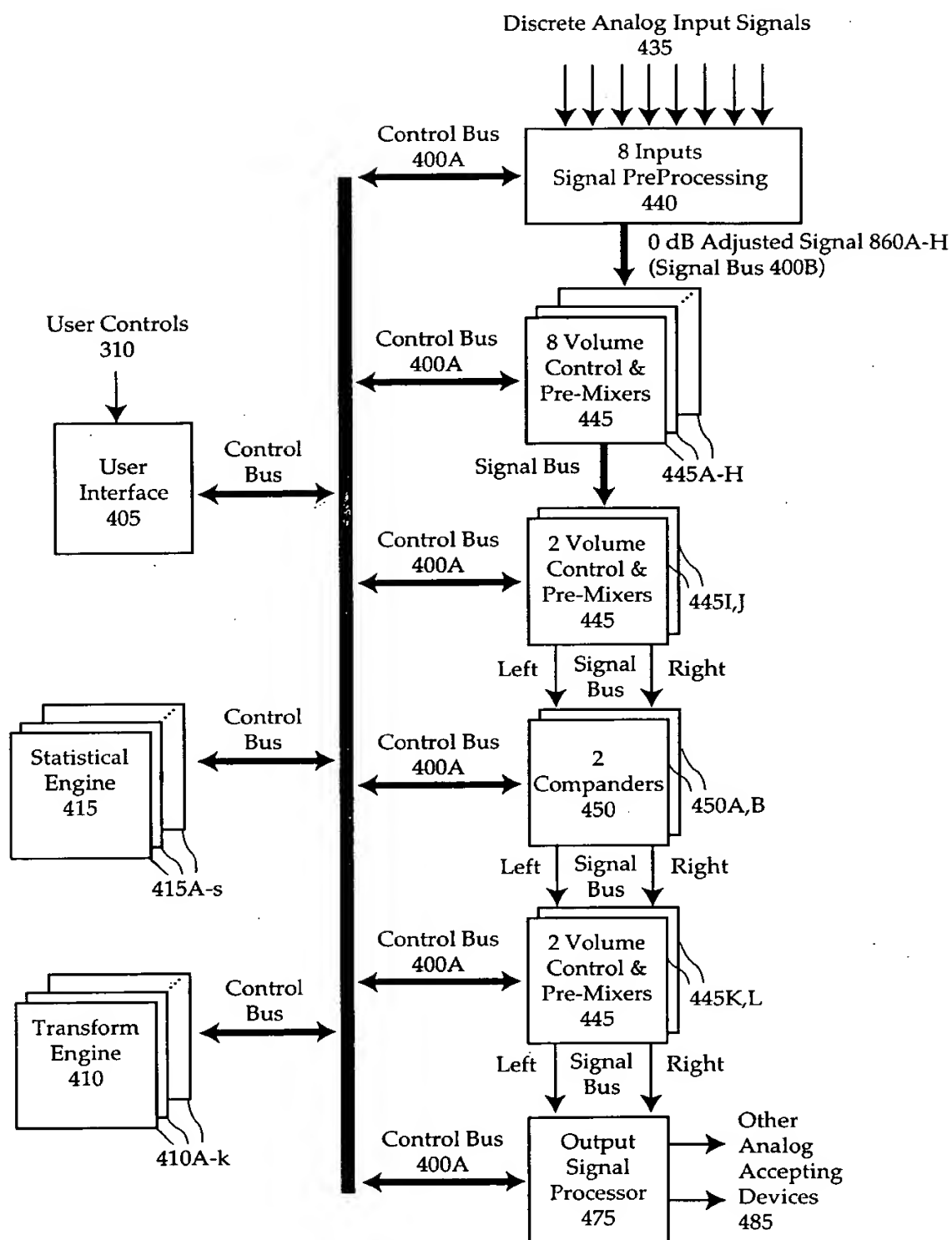


FIG. 5I

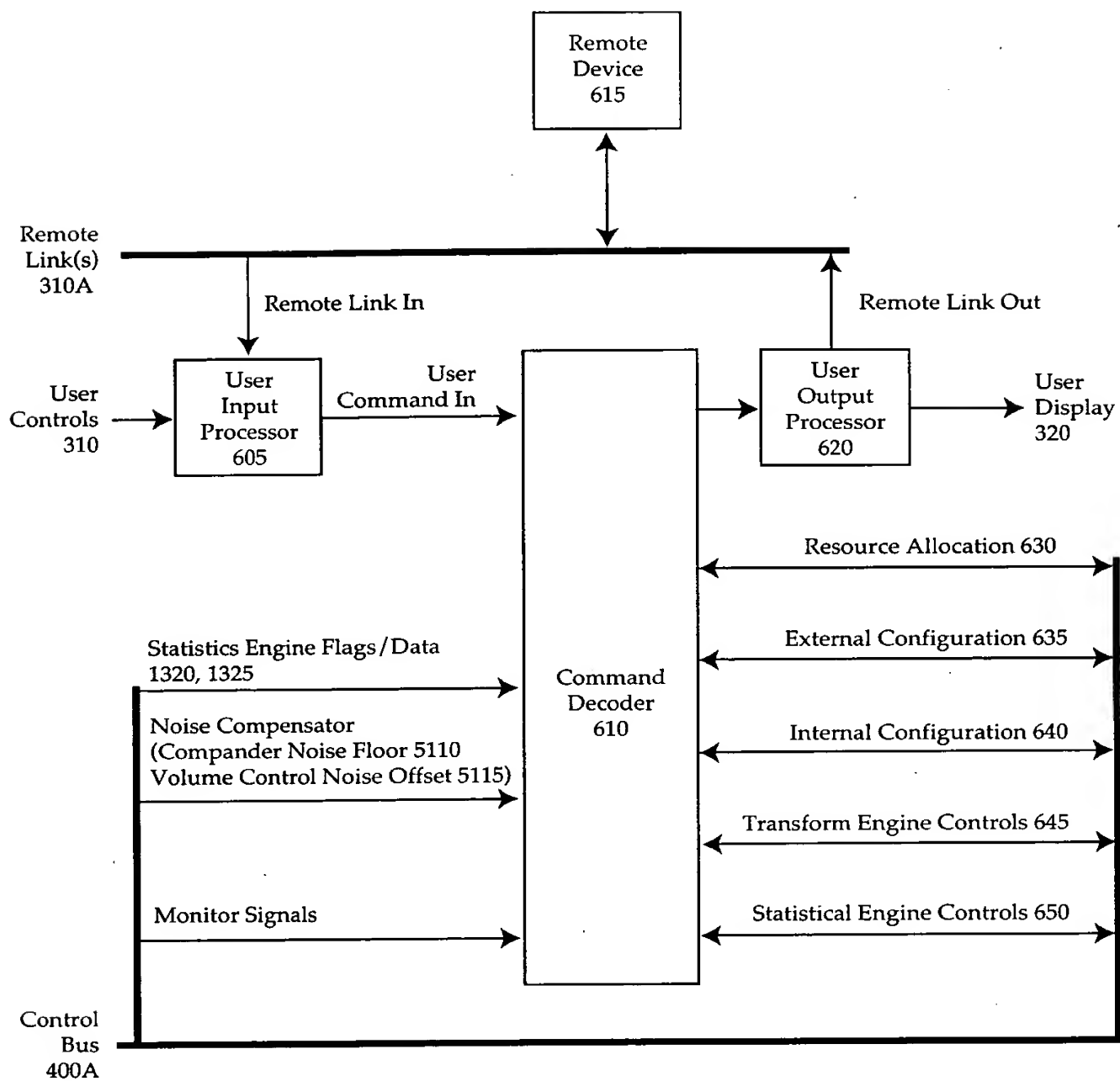


FIG. 6A

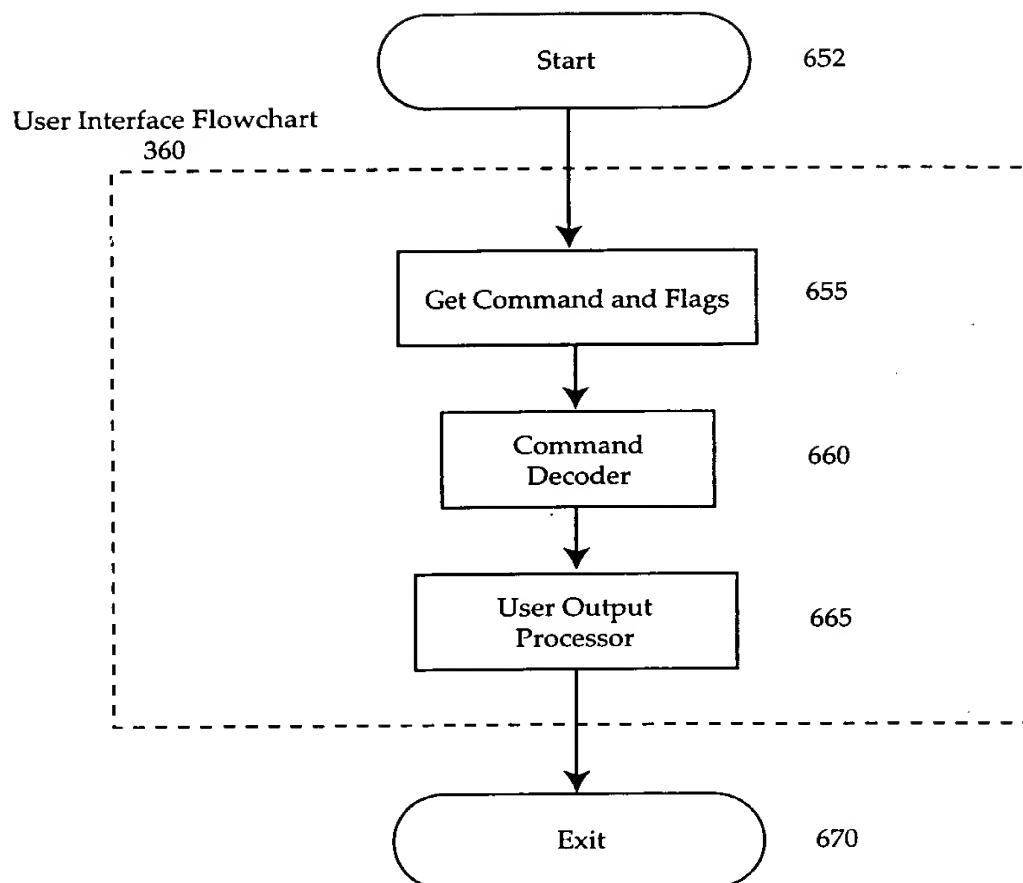


FIG. 6B

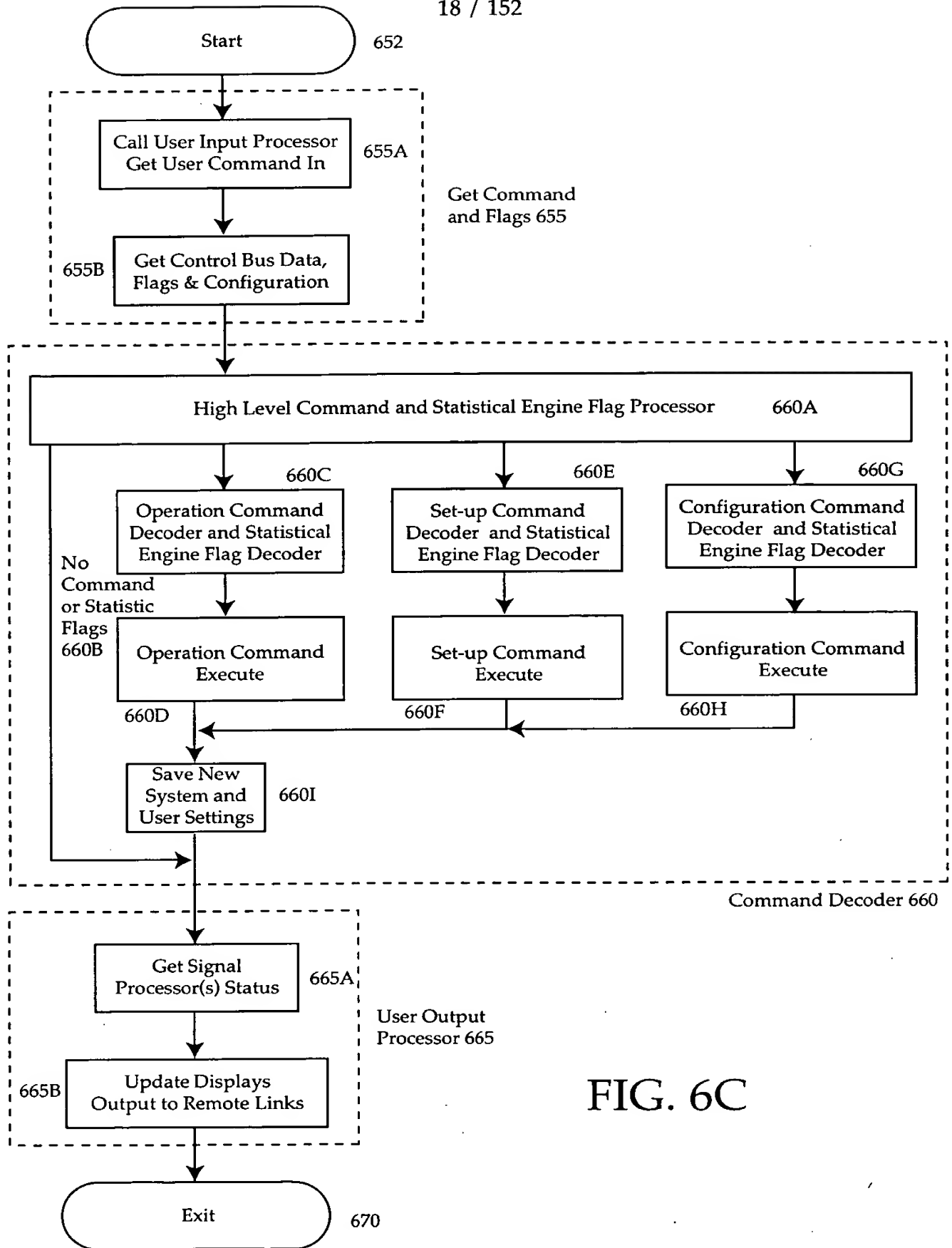


FIG. 6C

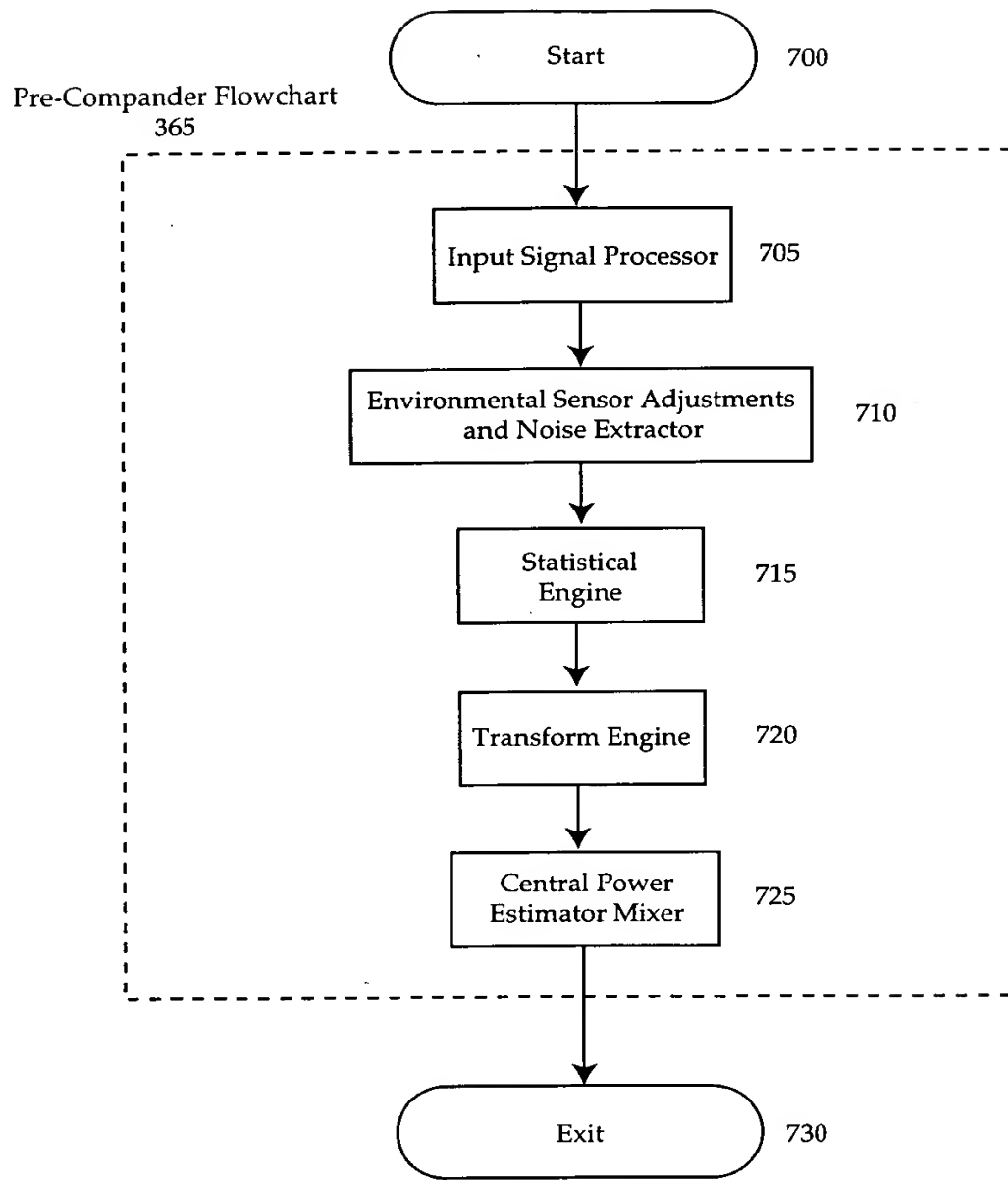


FIG. 7

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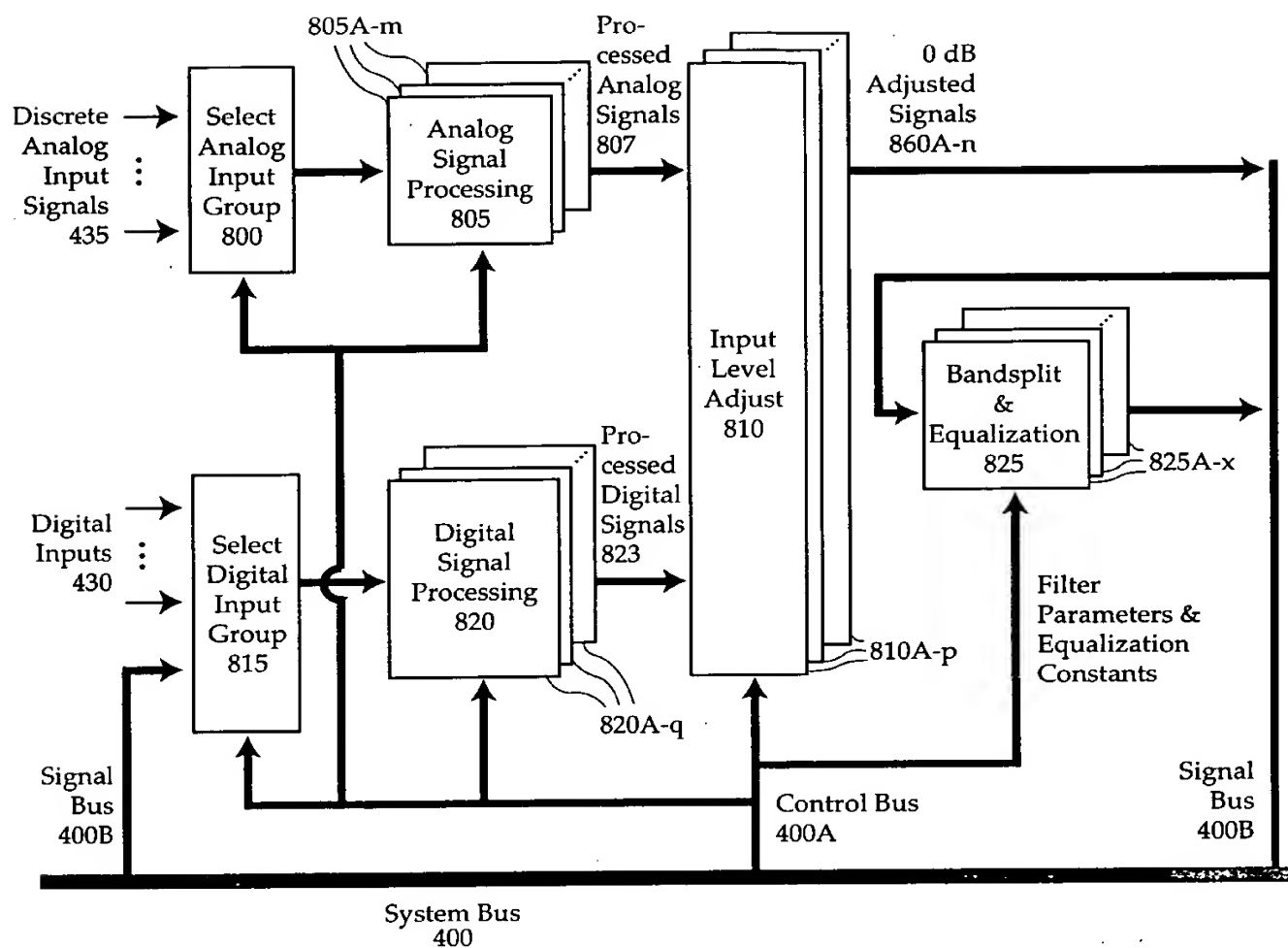


FIG. 8A

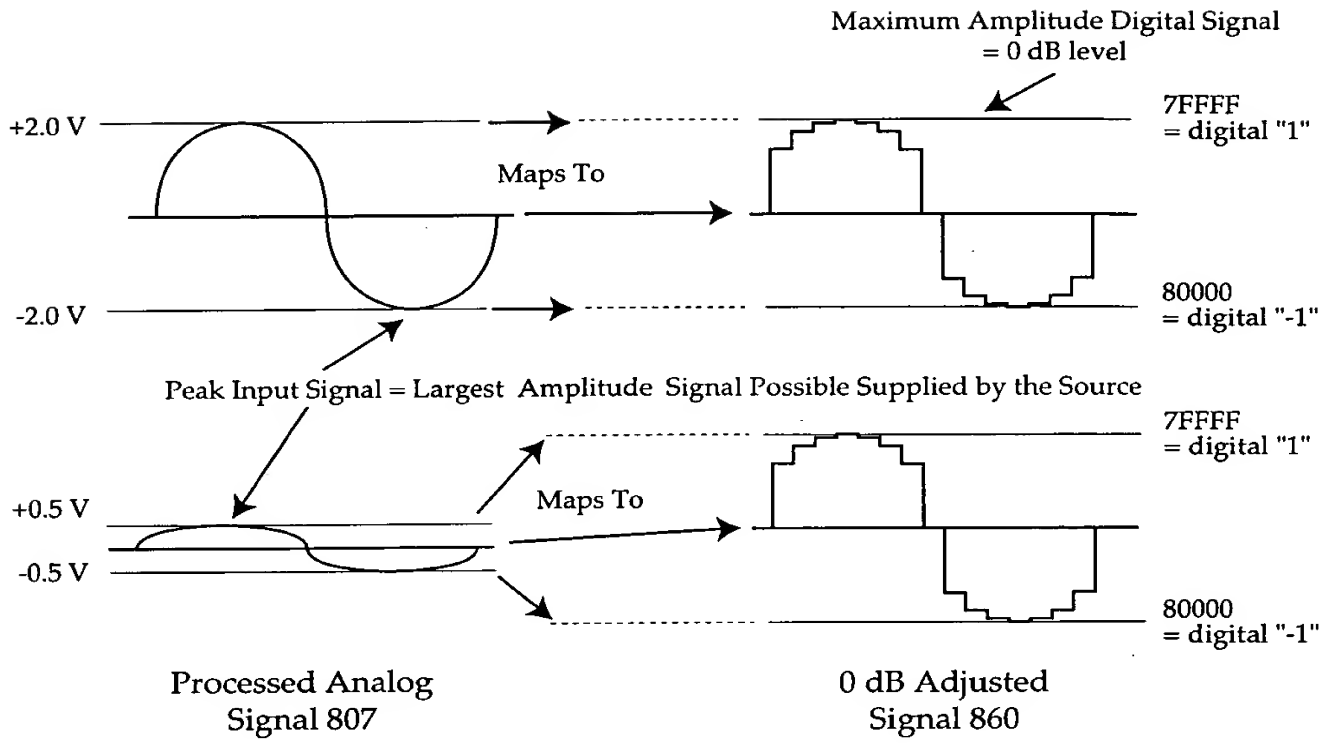


FIG. 8B

006271 6922260

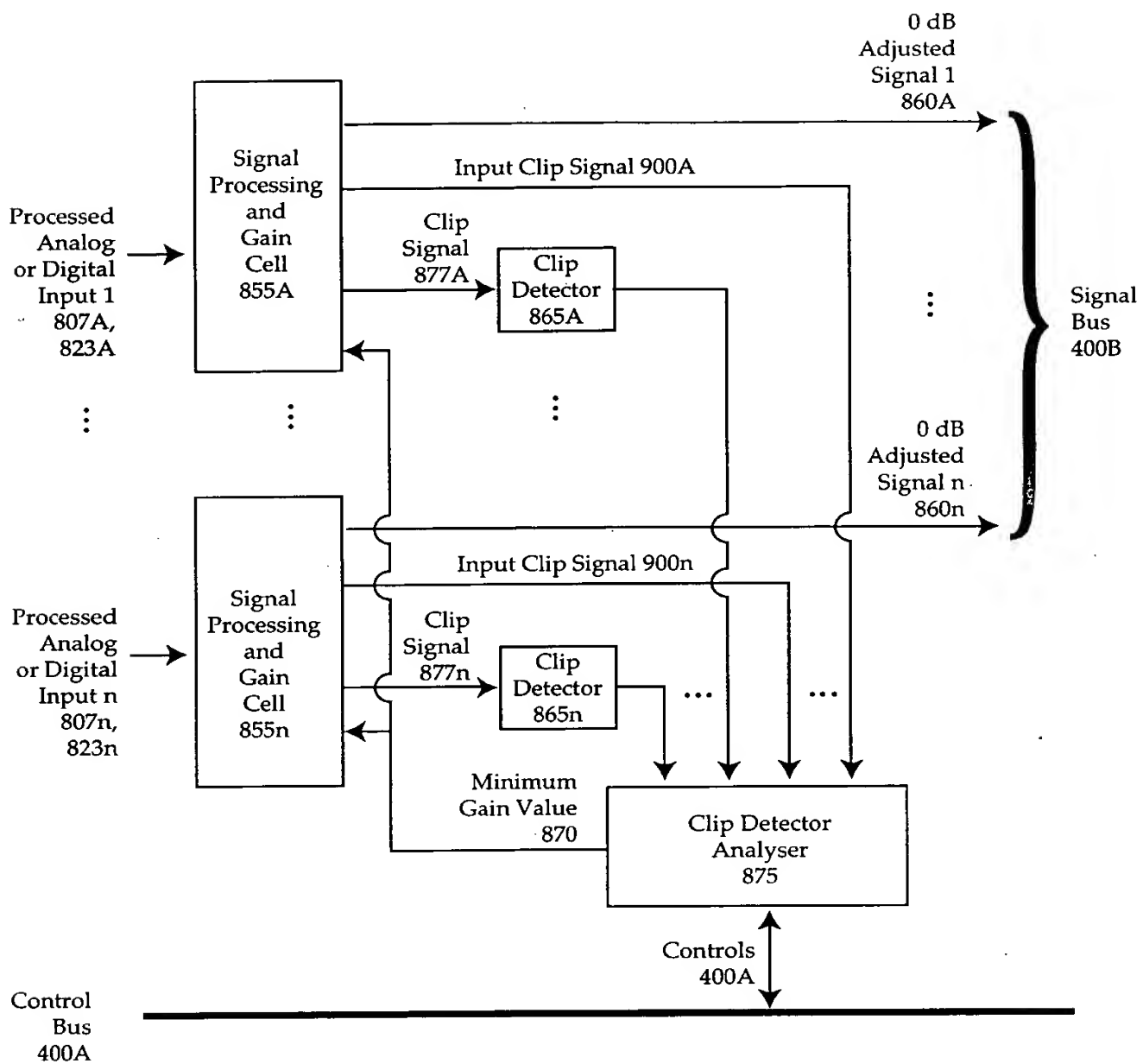


FIG. 8C

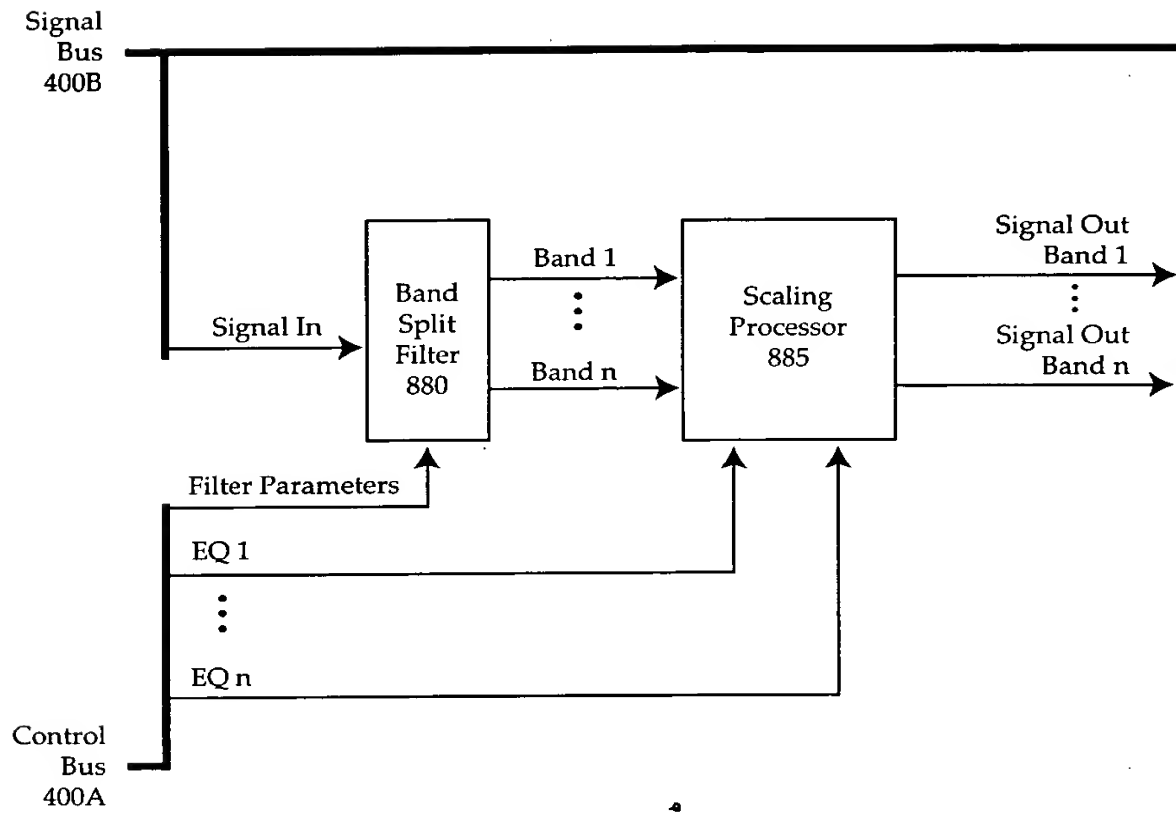


FIG. 8D

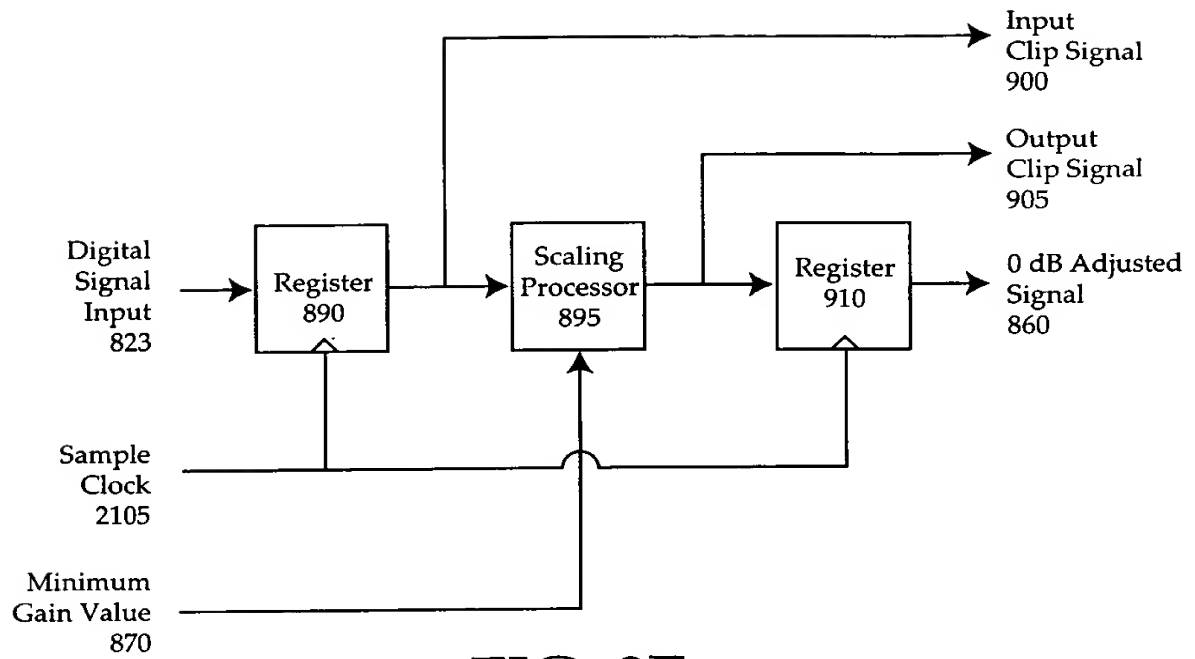


FIG. 8E

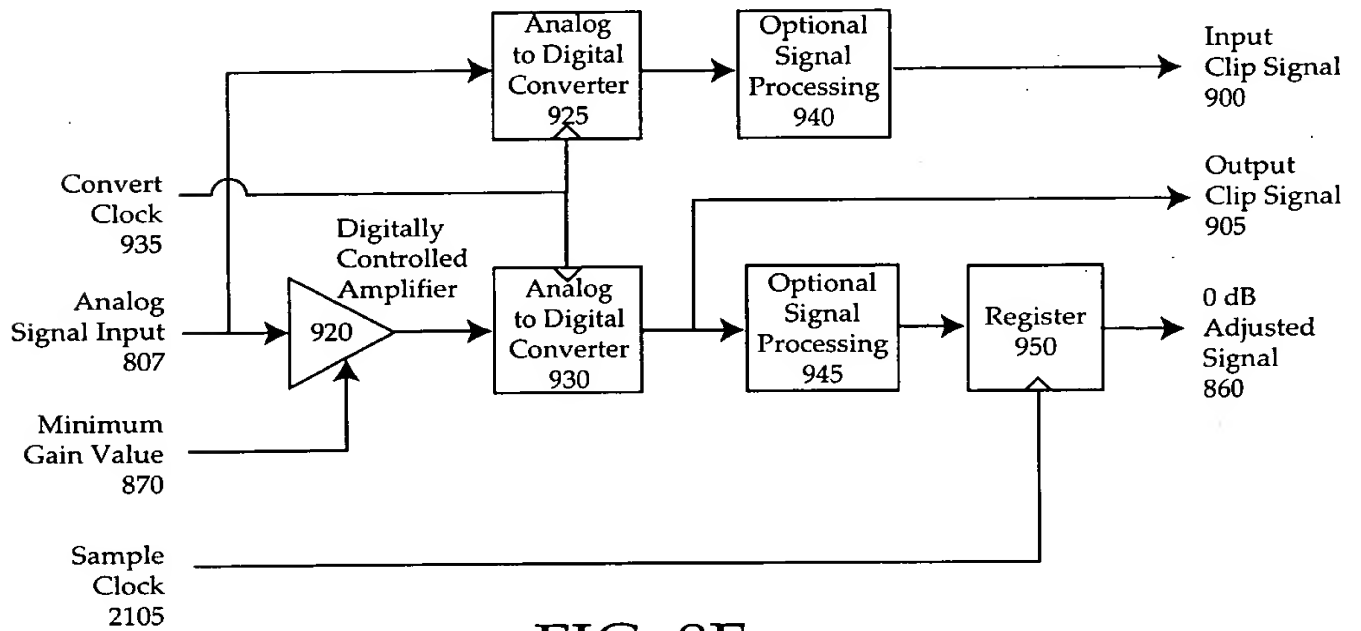


FIG. 8F

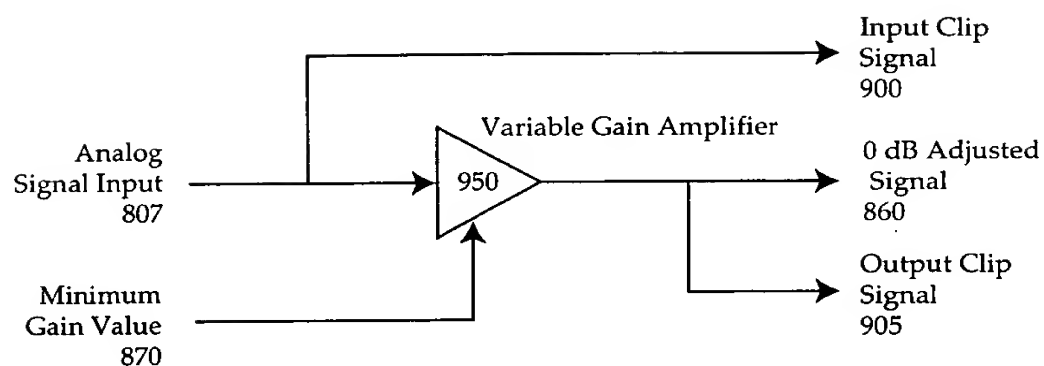


FIG. 8G

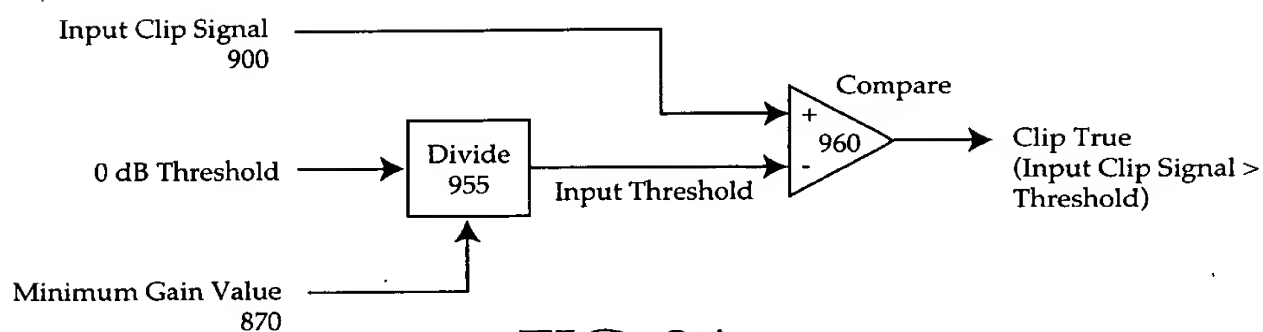


FIG. 9A

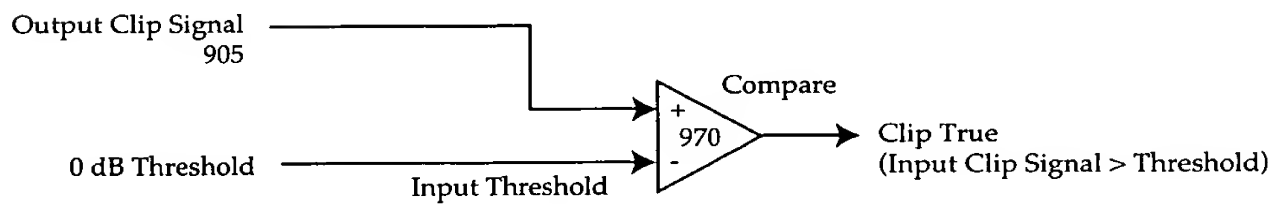


FIG. 9B

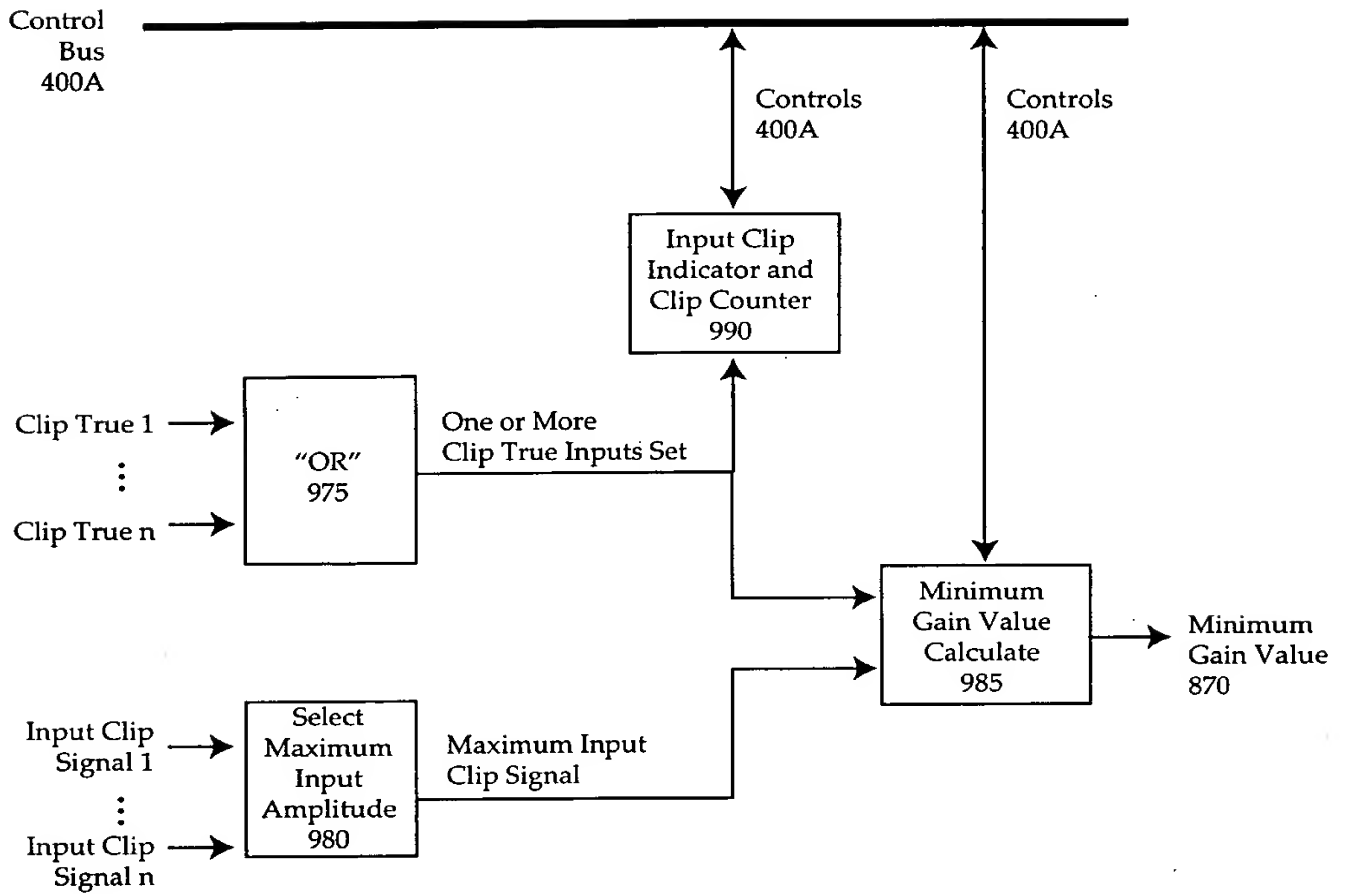


FIG. 9C

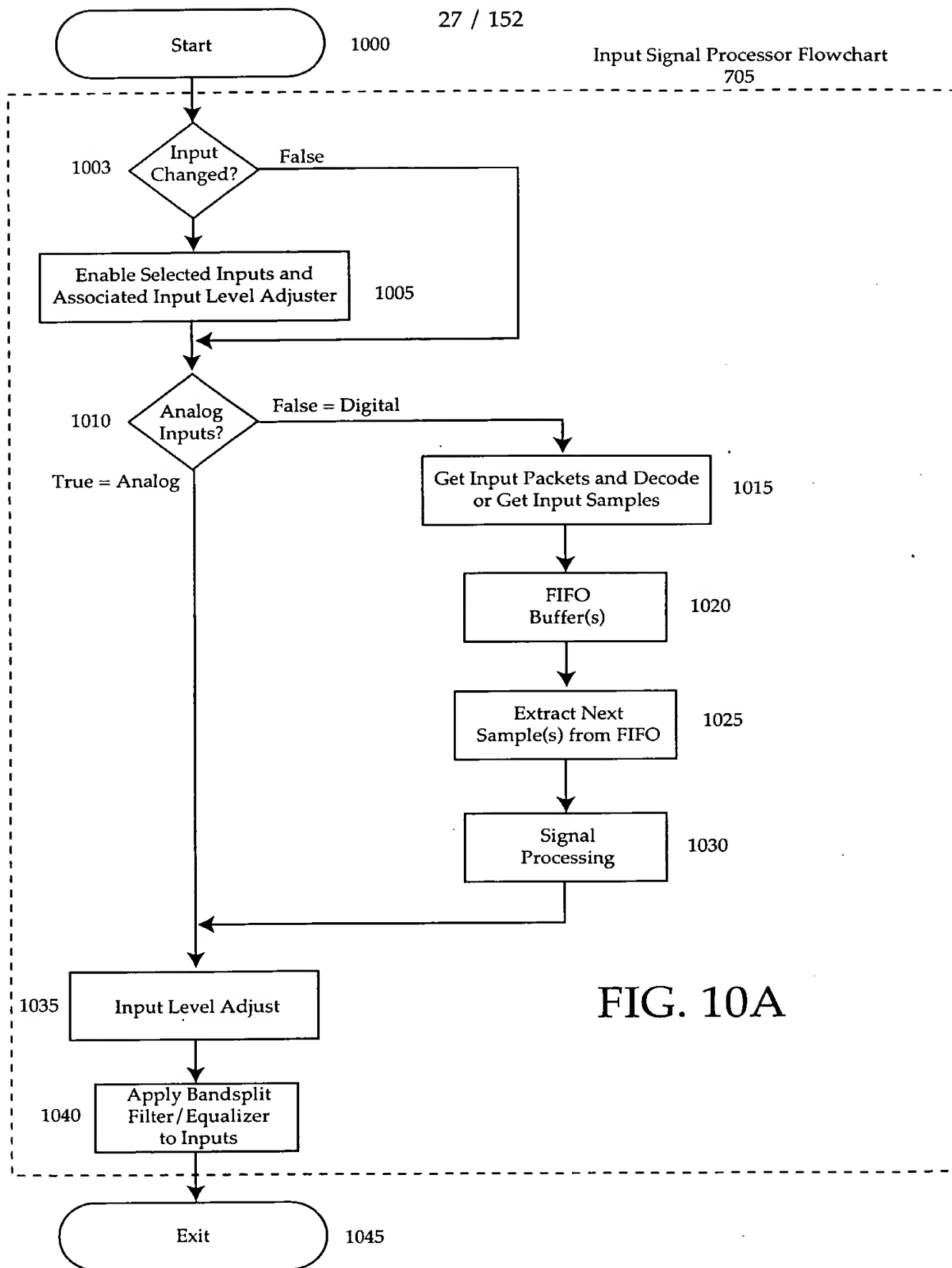
Input Signal Processor Flowchart
705

FIG. 10A

006277" 692/2260

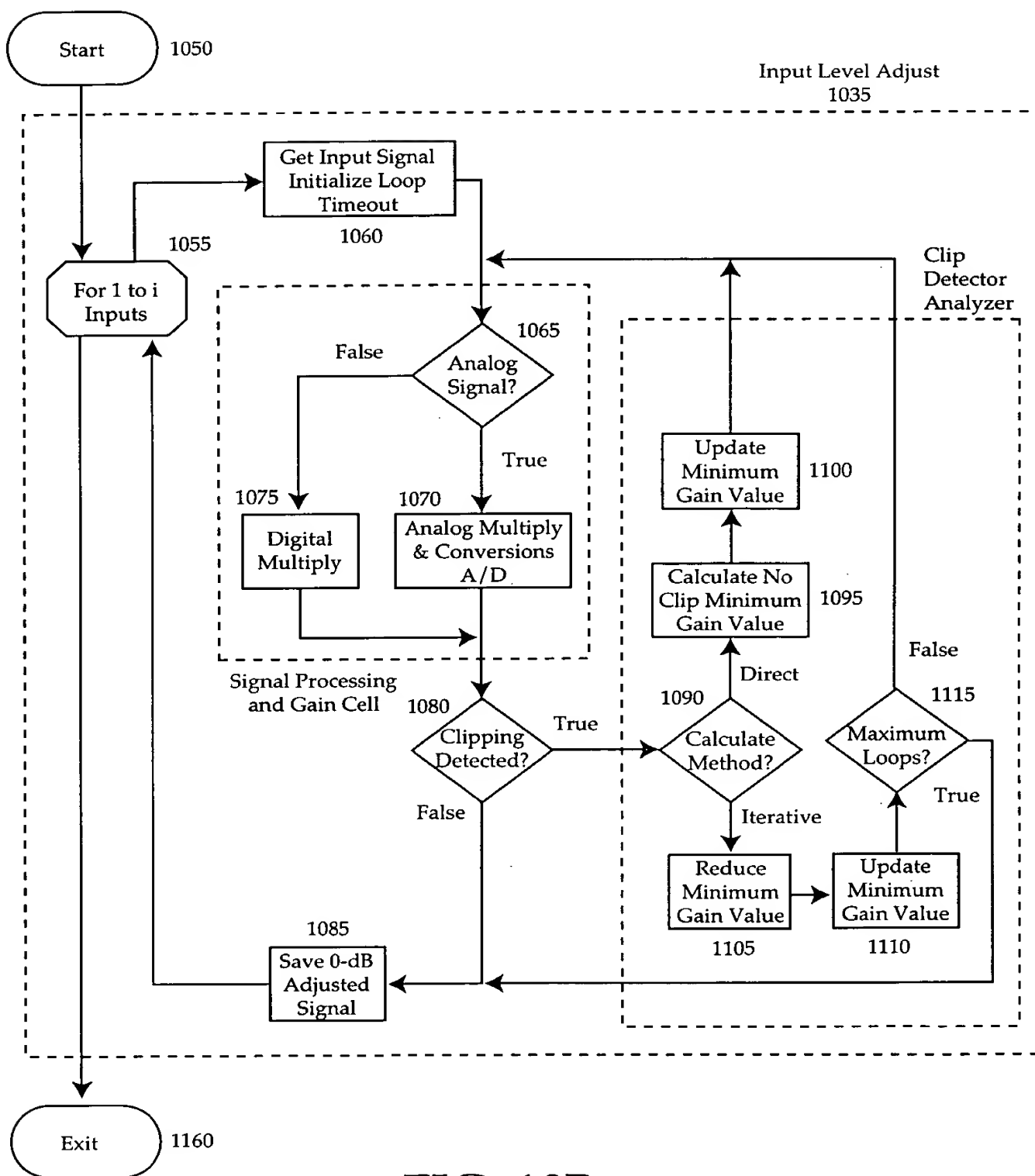


FIG. 10B

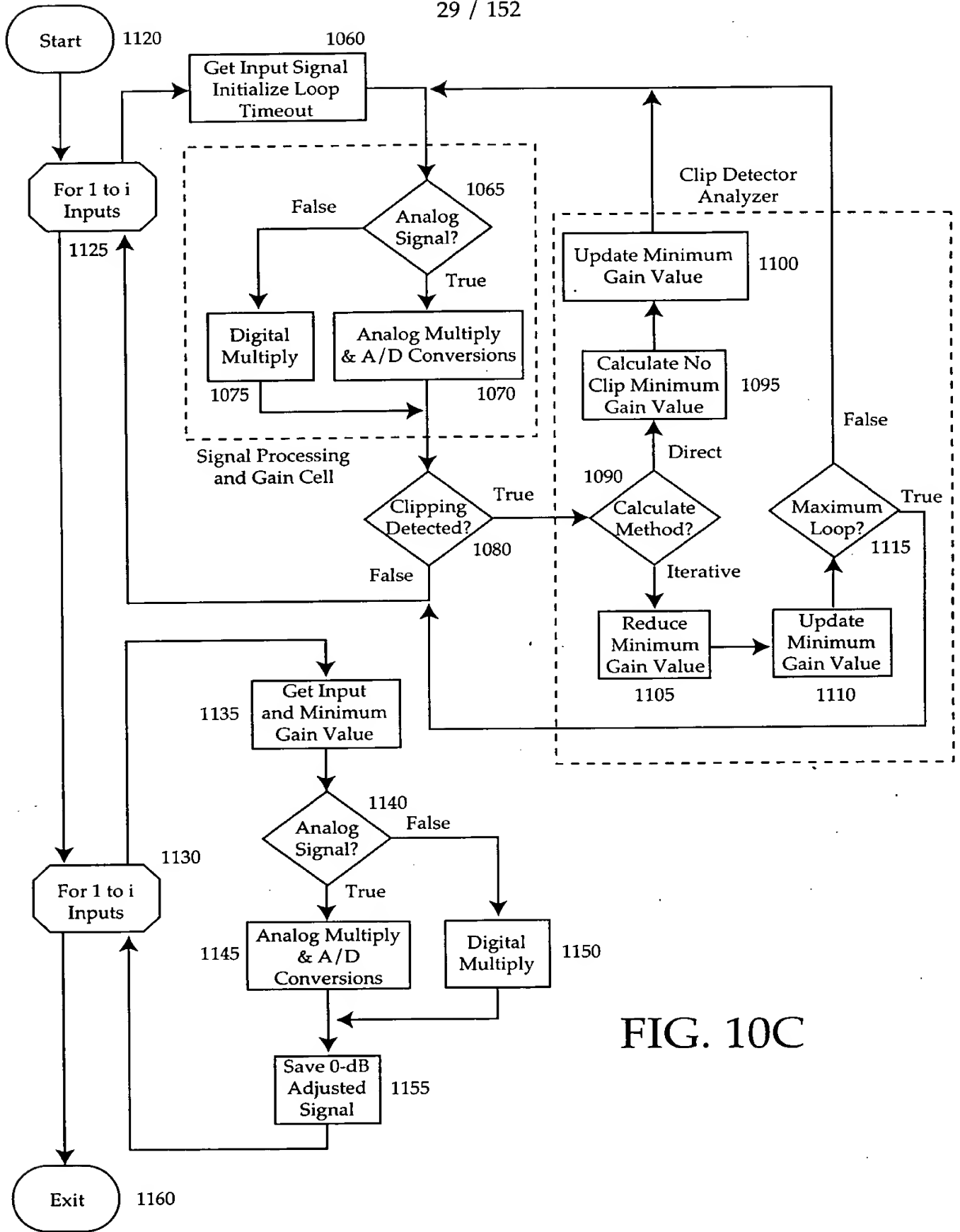


FIG. 10C

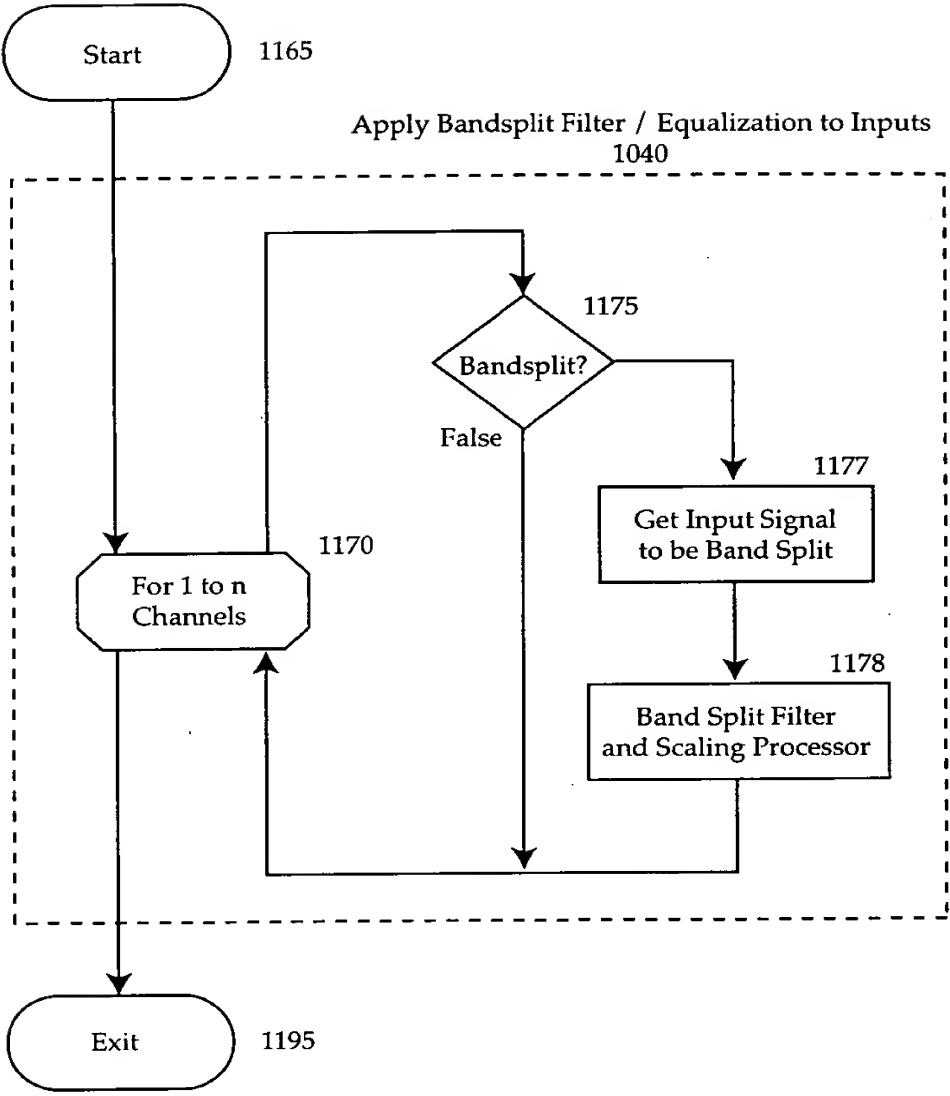


FIG. 10D

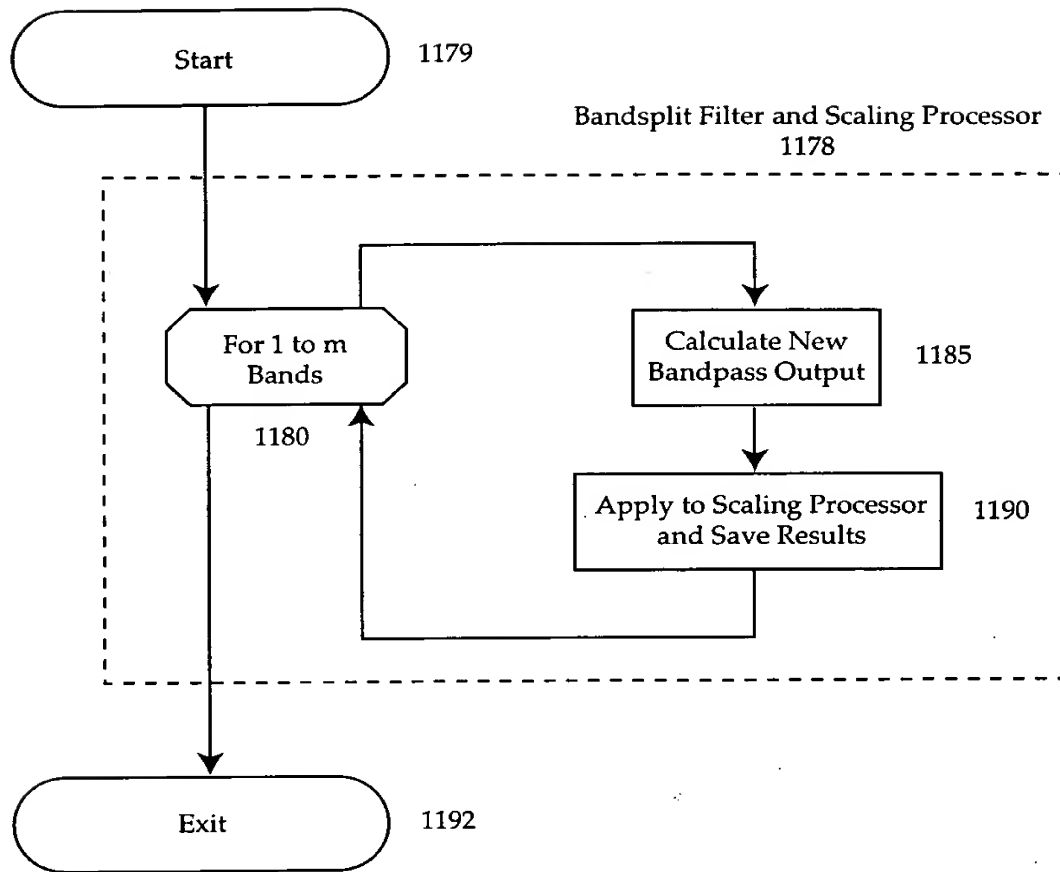


FIG. 10E

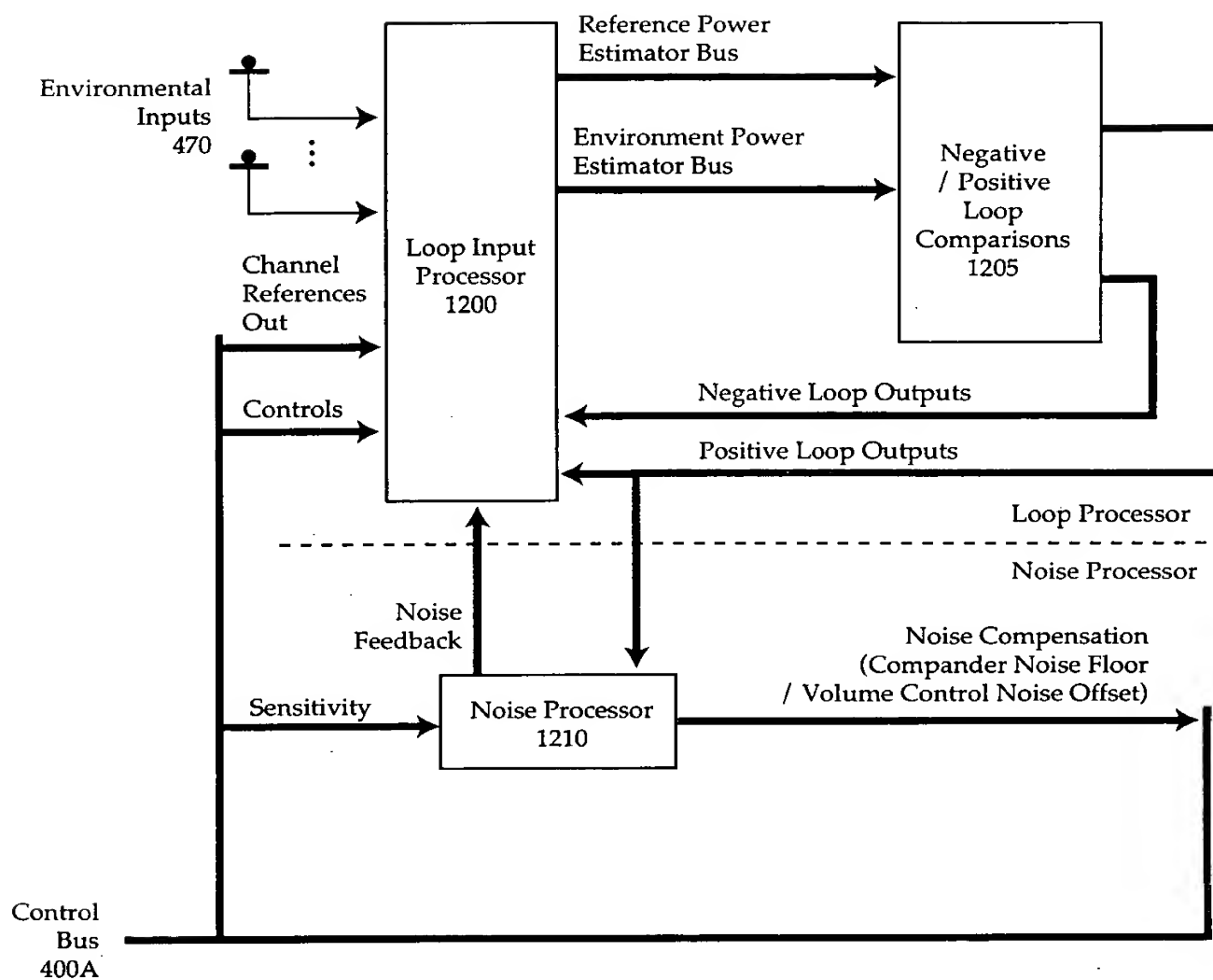


FIG. 11

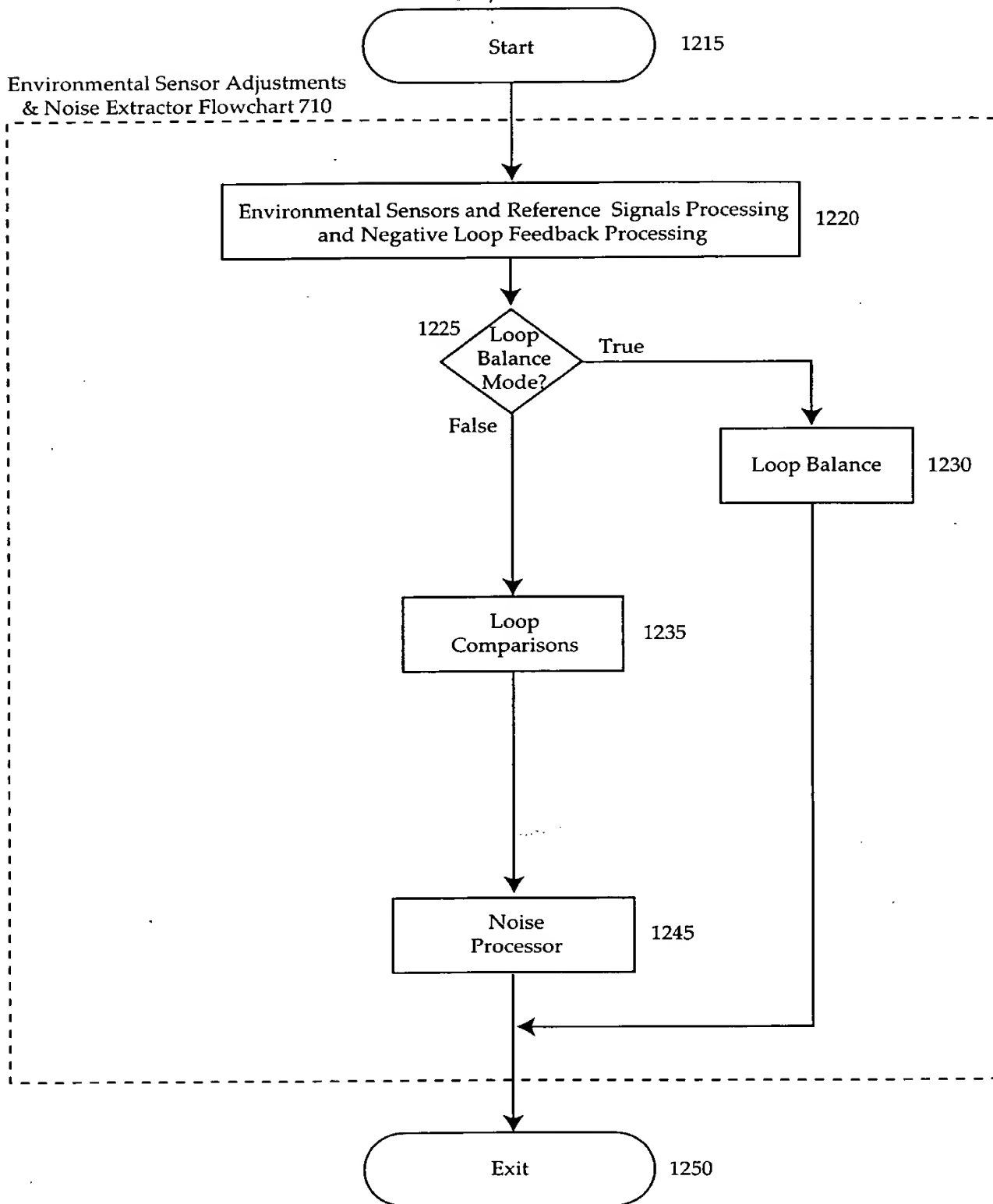
Environmental Sensor Adjustments
& Noise Extractor Flowchart 710

FIG. 12

006271" 6922260

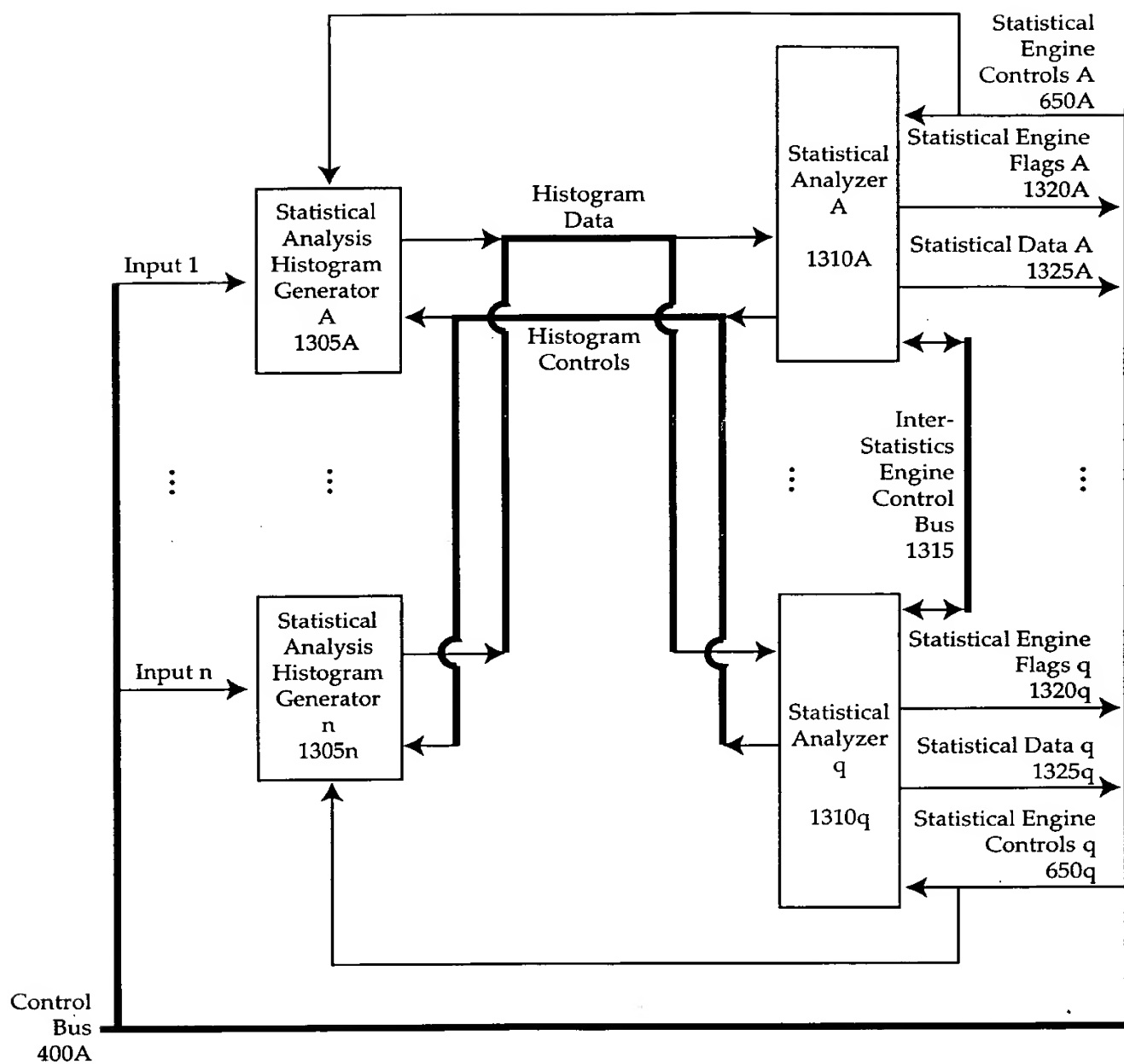


FIG. 13

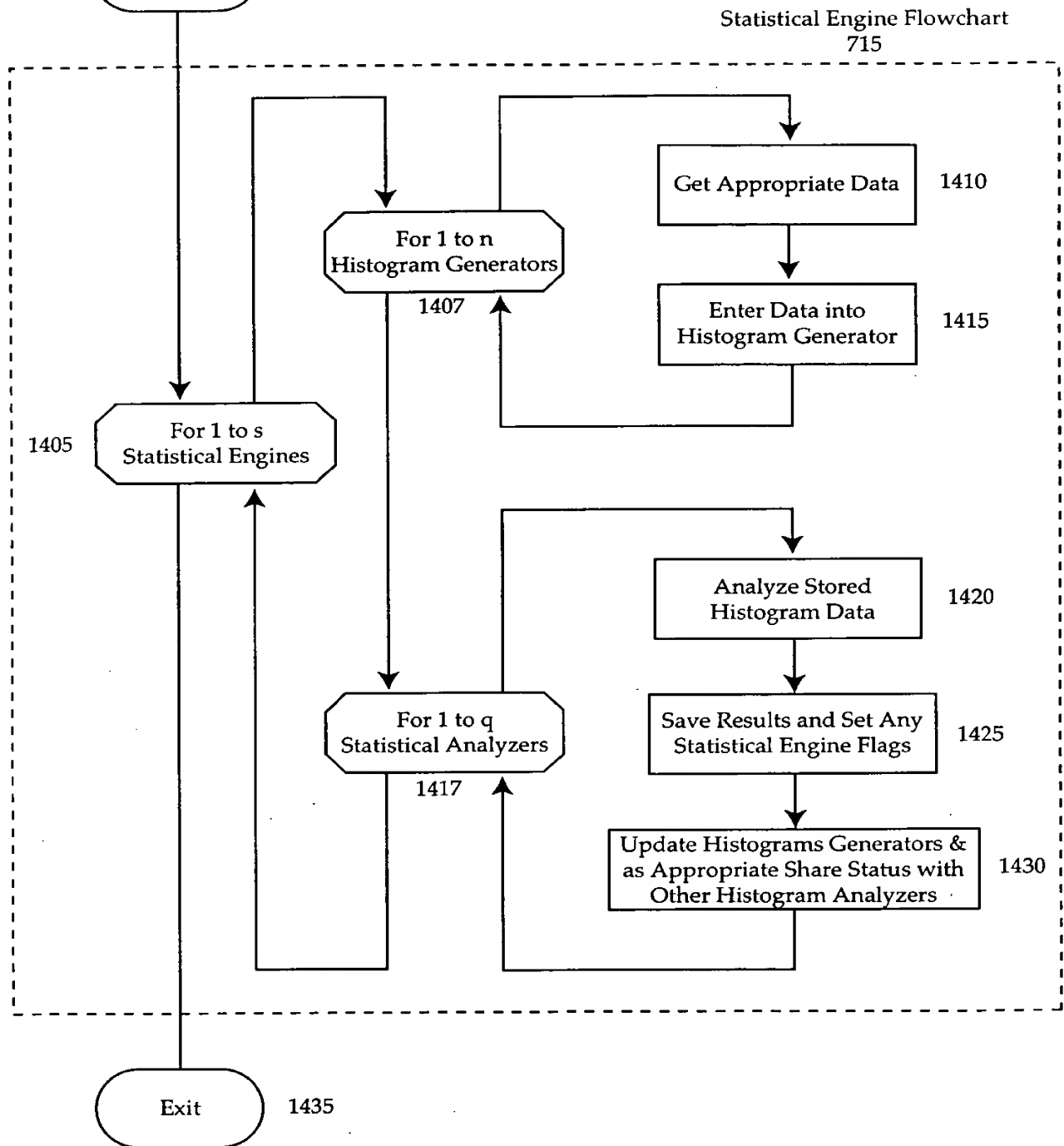


FIG. 14

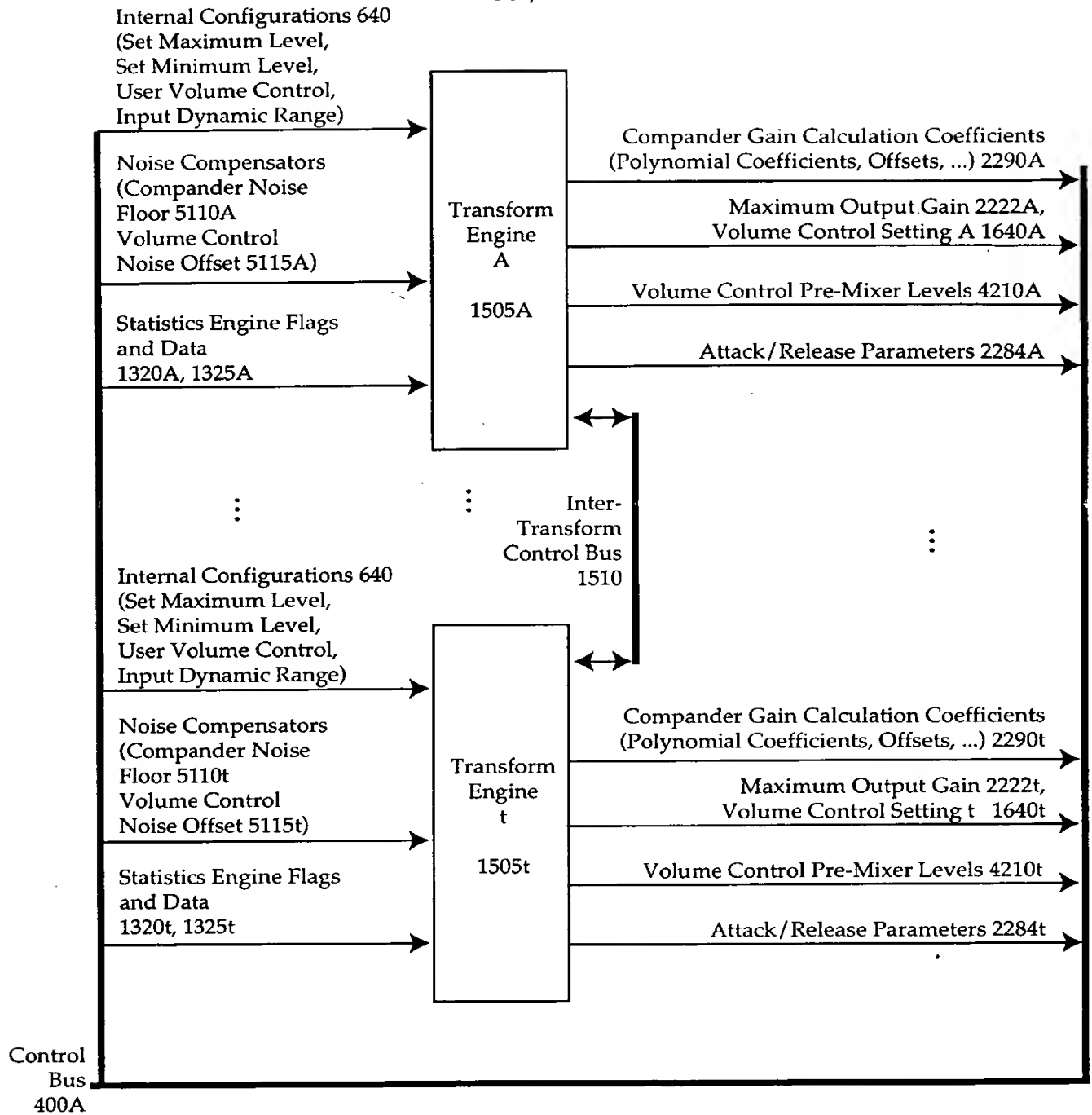


FIG. 15

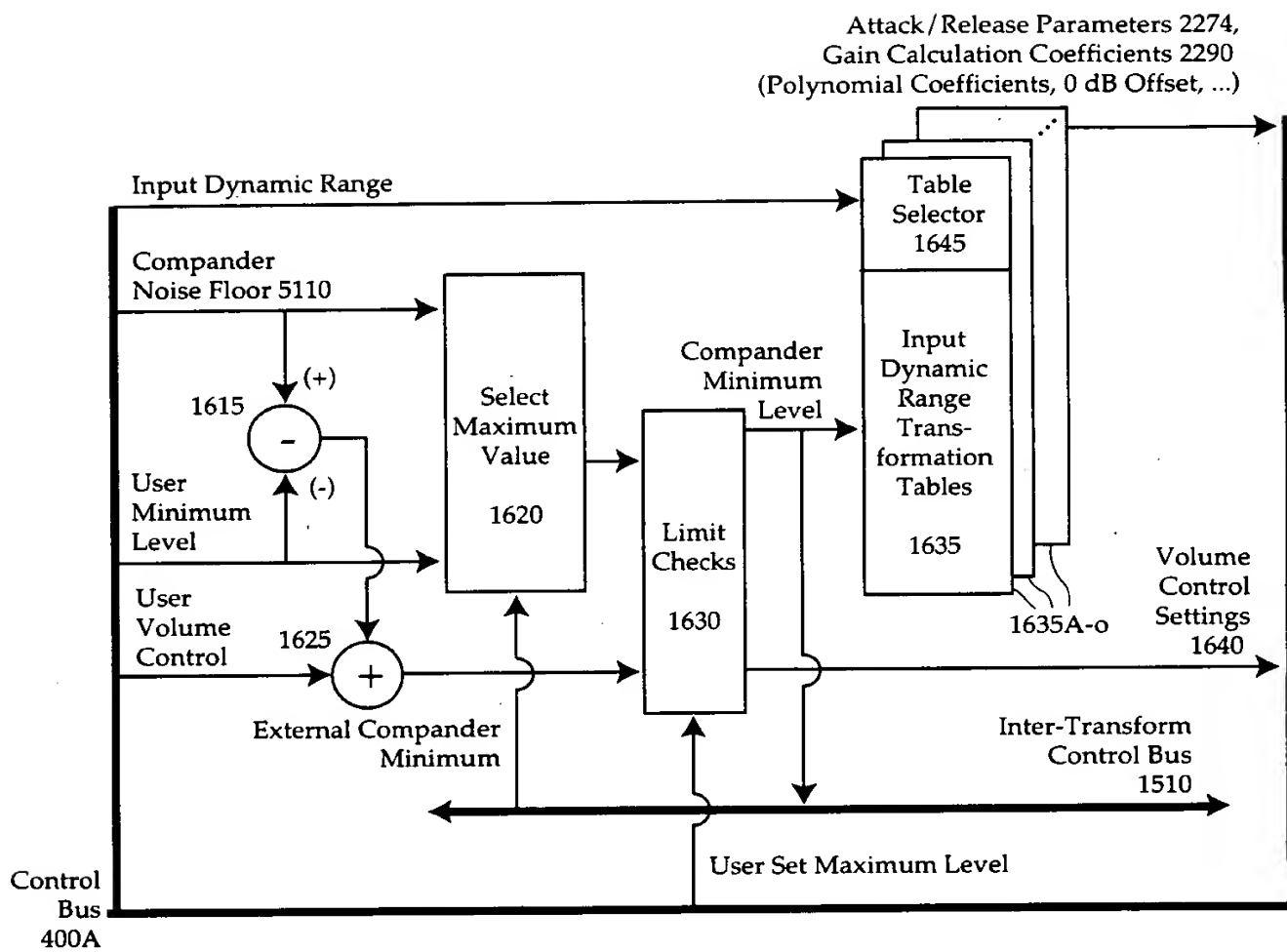


FIG. 16

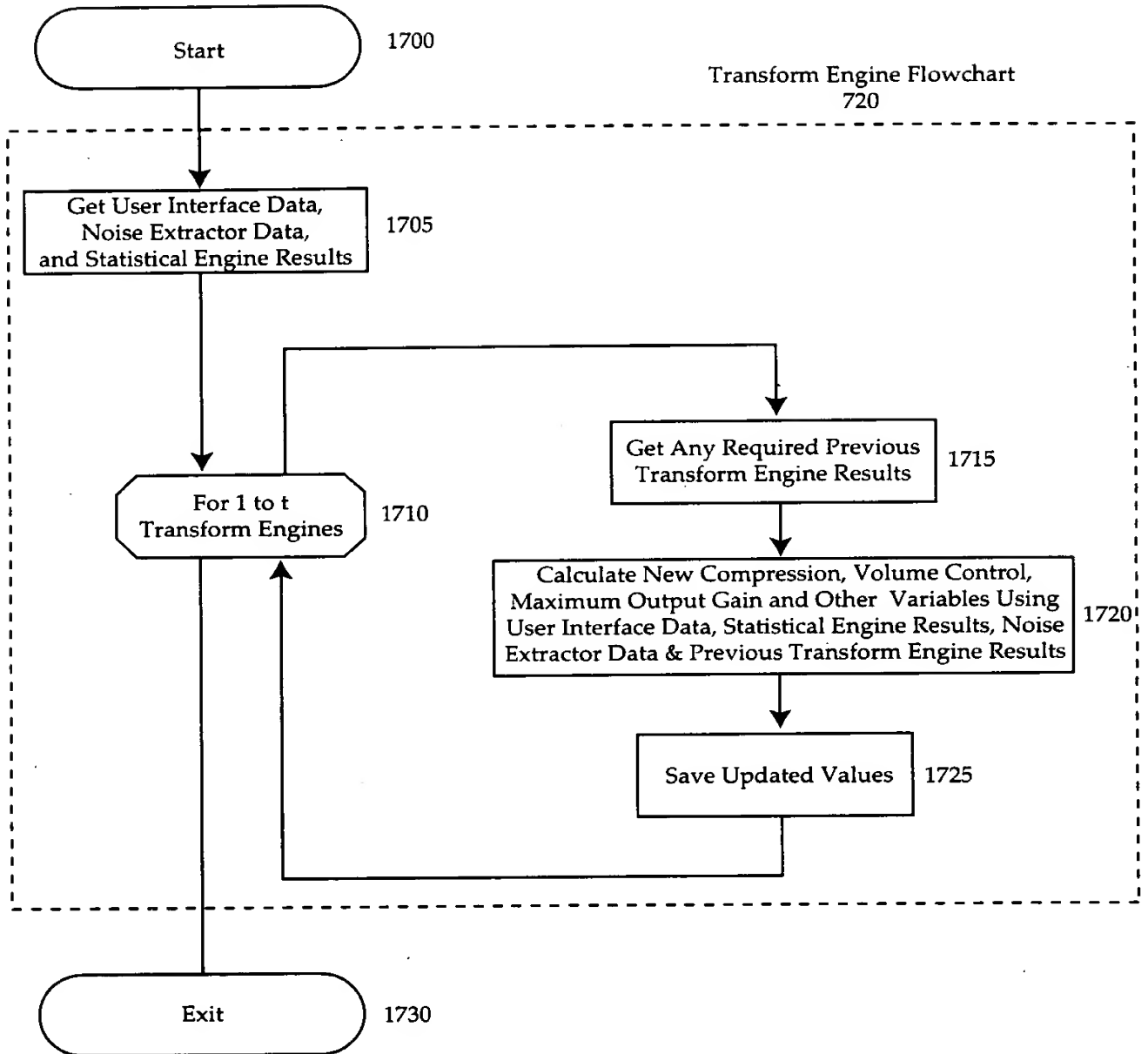


FIG. 17

Central Power Estimator Mixer Combiner
455

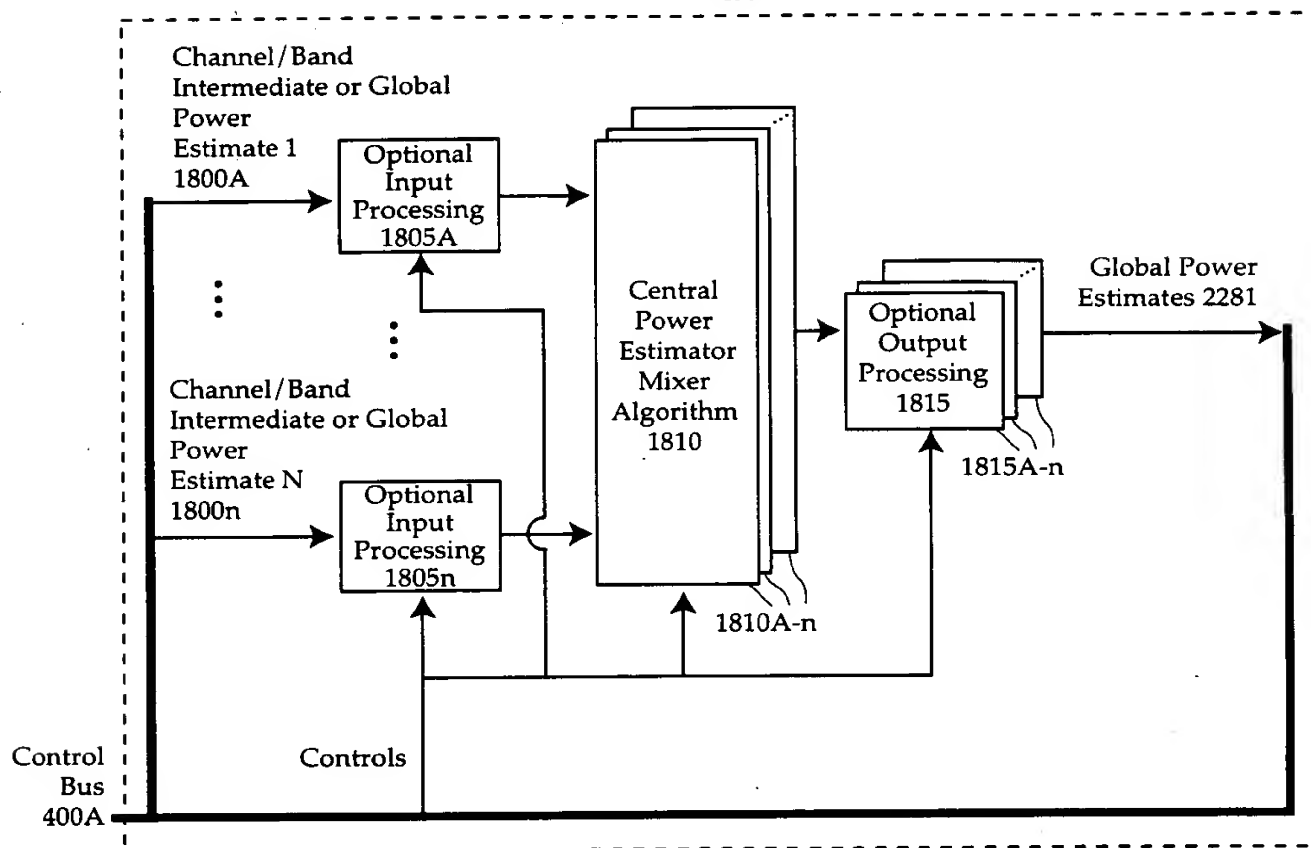


FIG. 18

09727269-112900

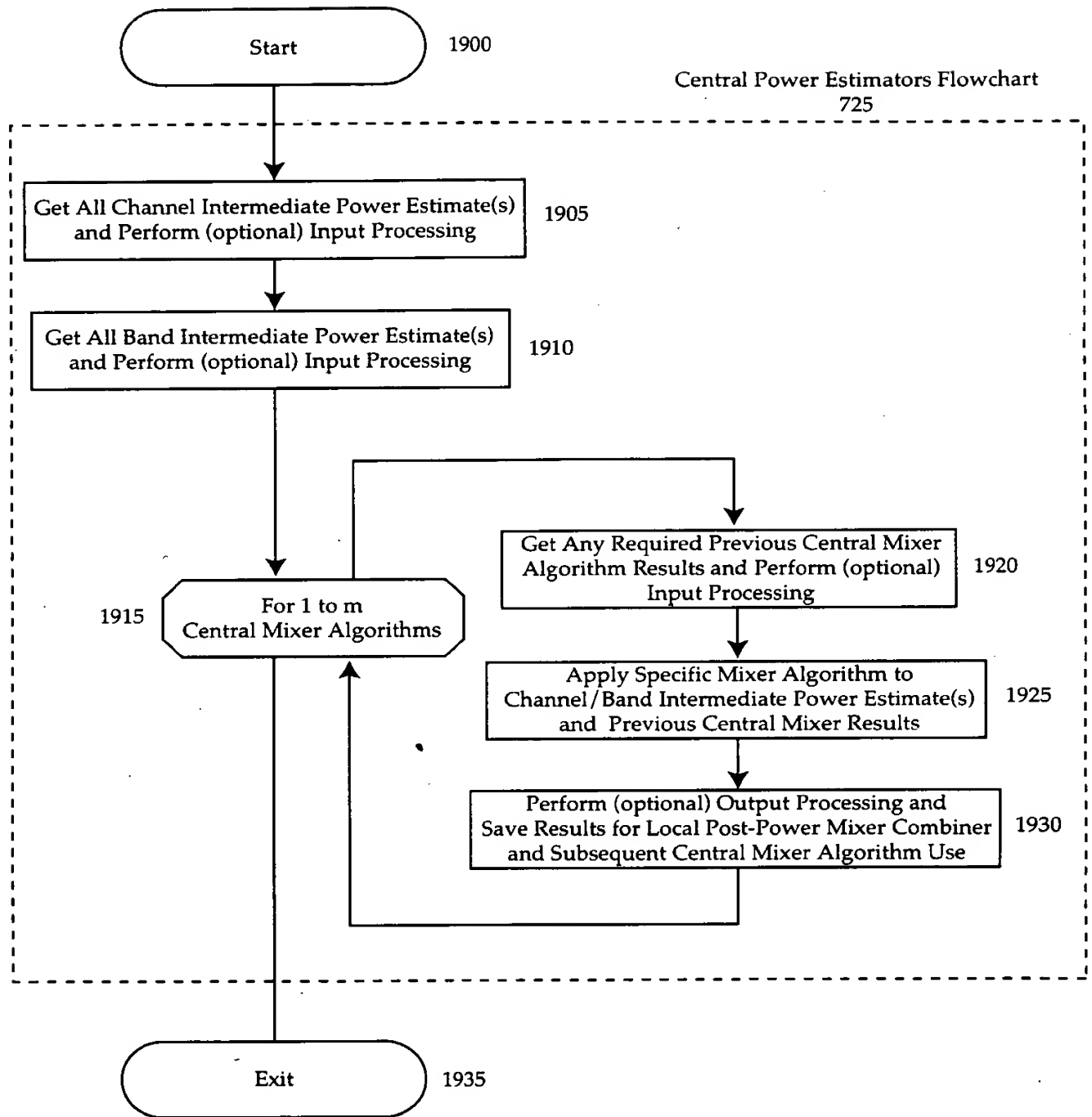
Central Power Estimators Flowchart
725

FIG. 19

006211-6922260

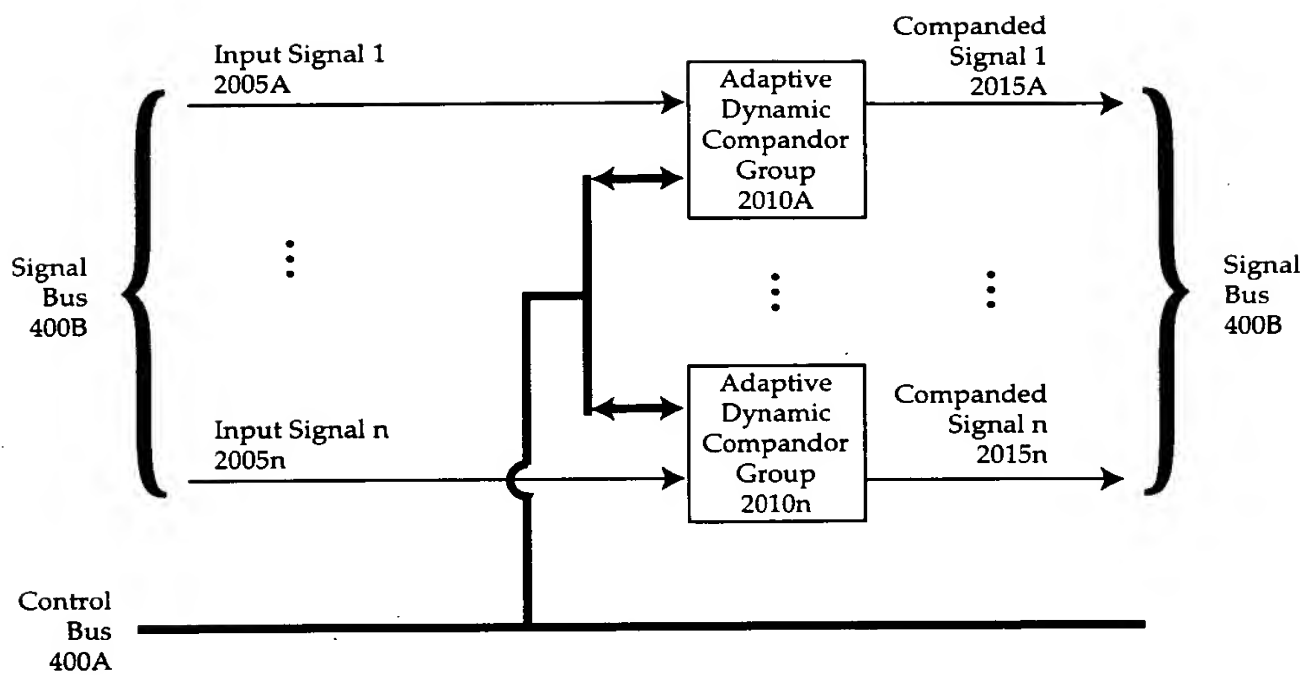


FIG. 20A

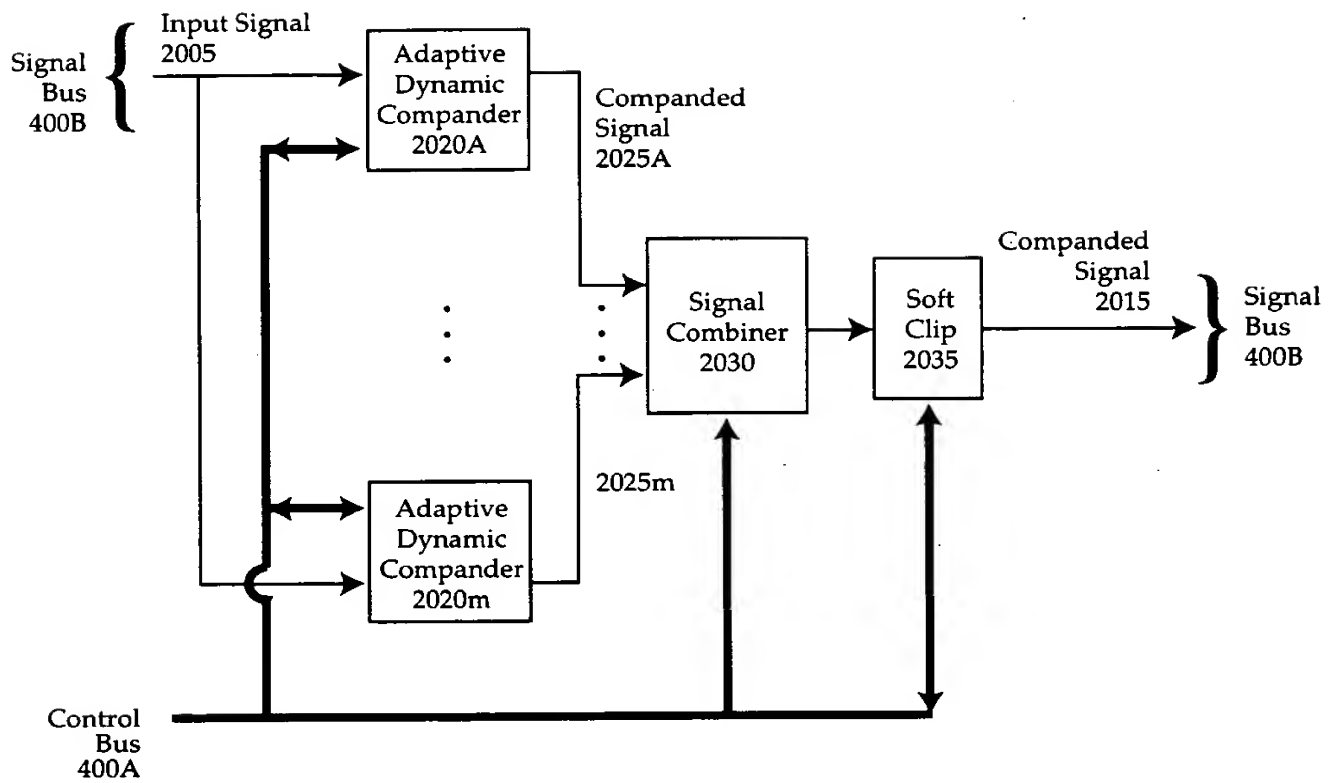


FIG. 20B

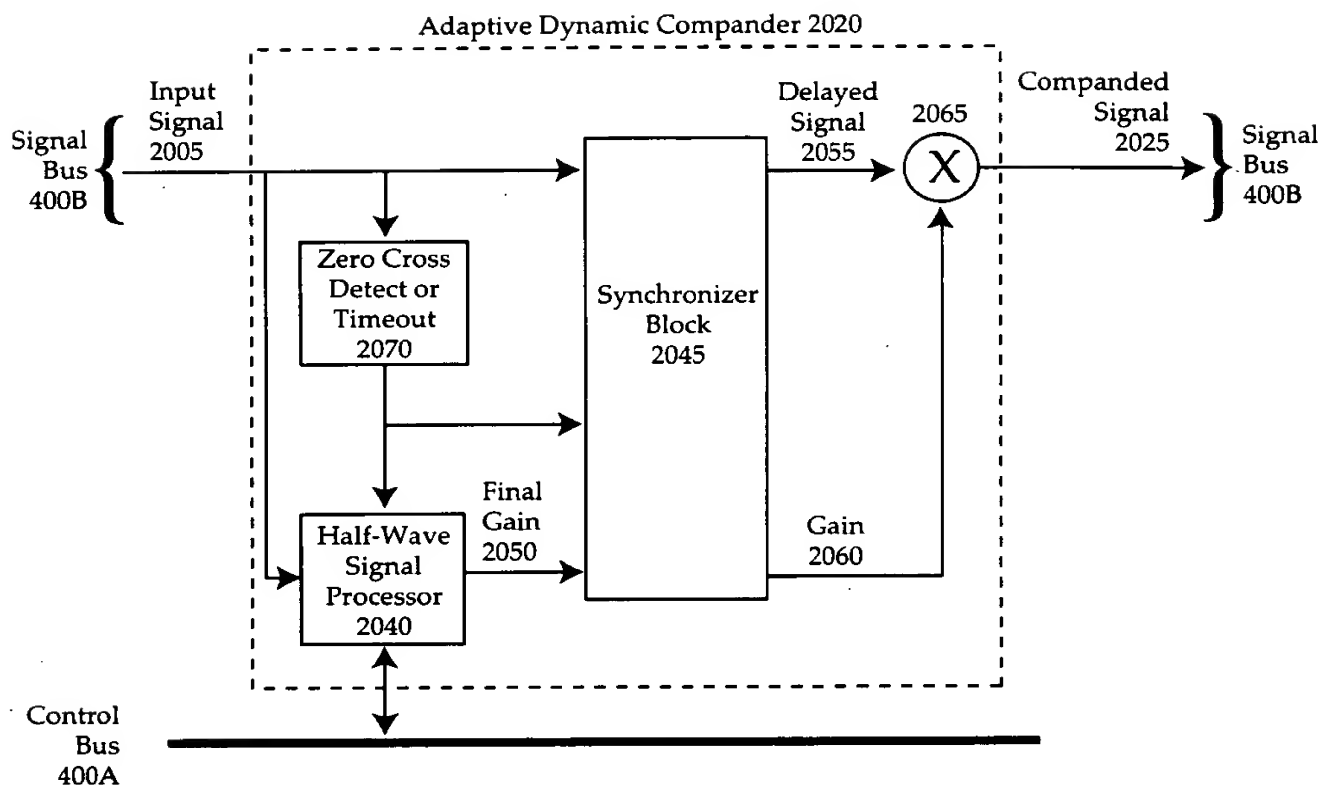


FIG. 20C

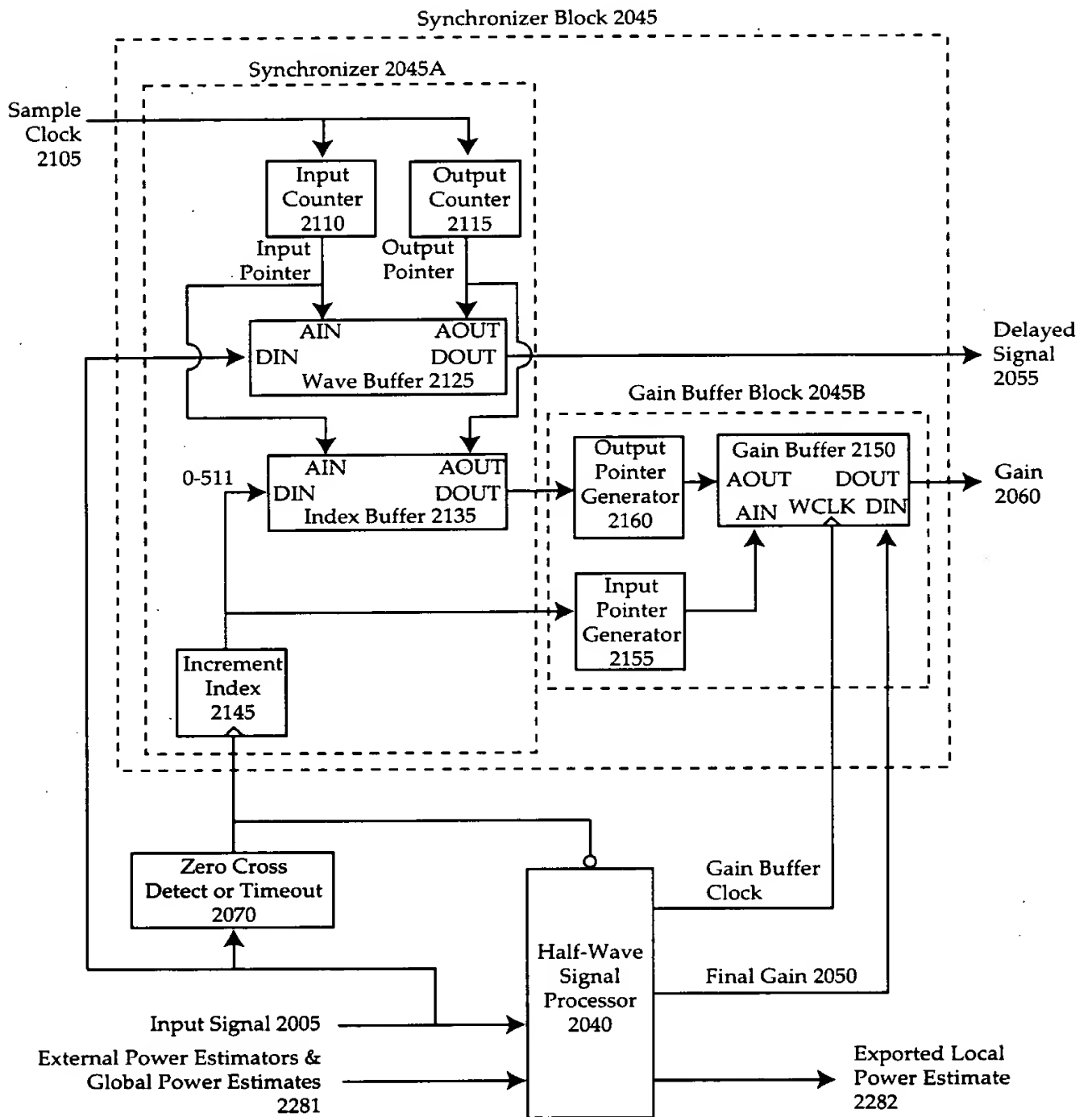


FIG. 21A

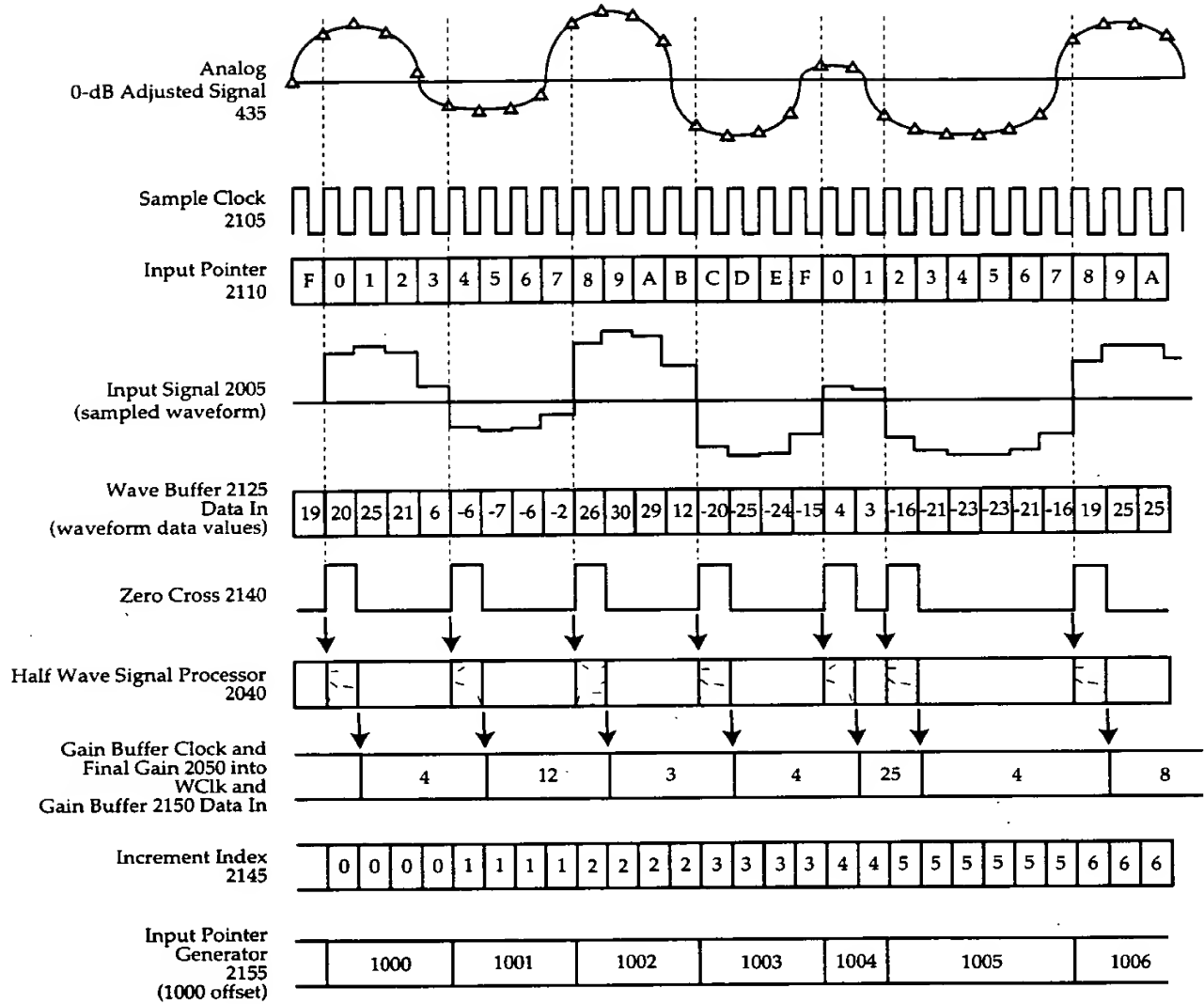


FIG. 21B

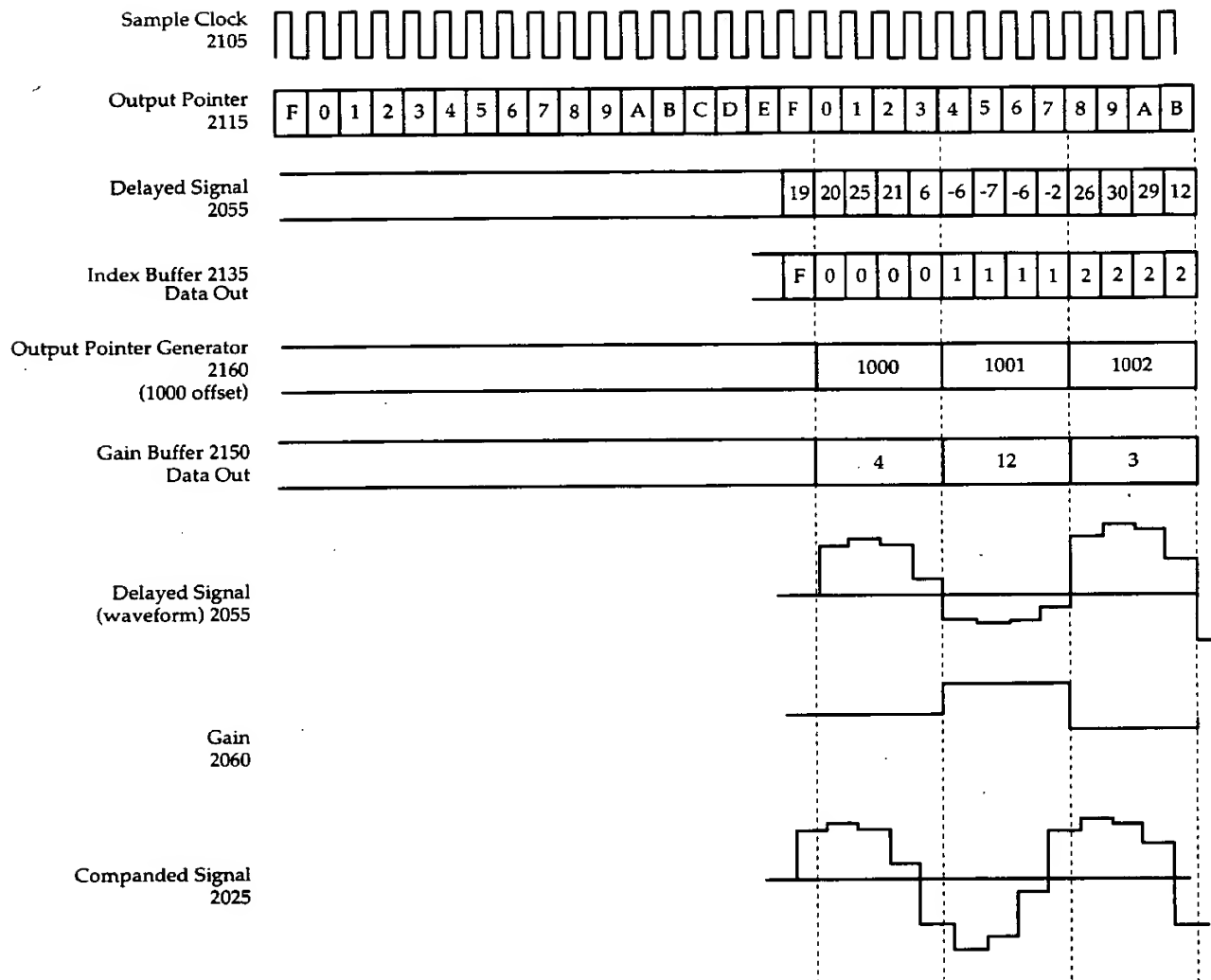


FIG. 21C

006277 6922260

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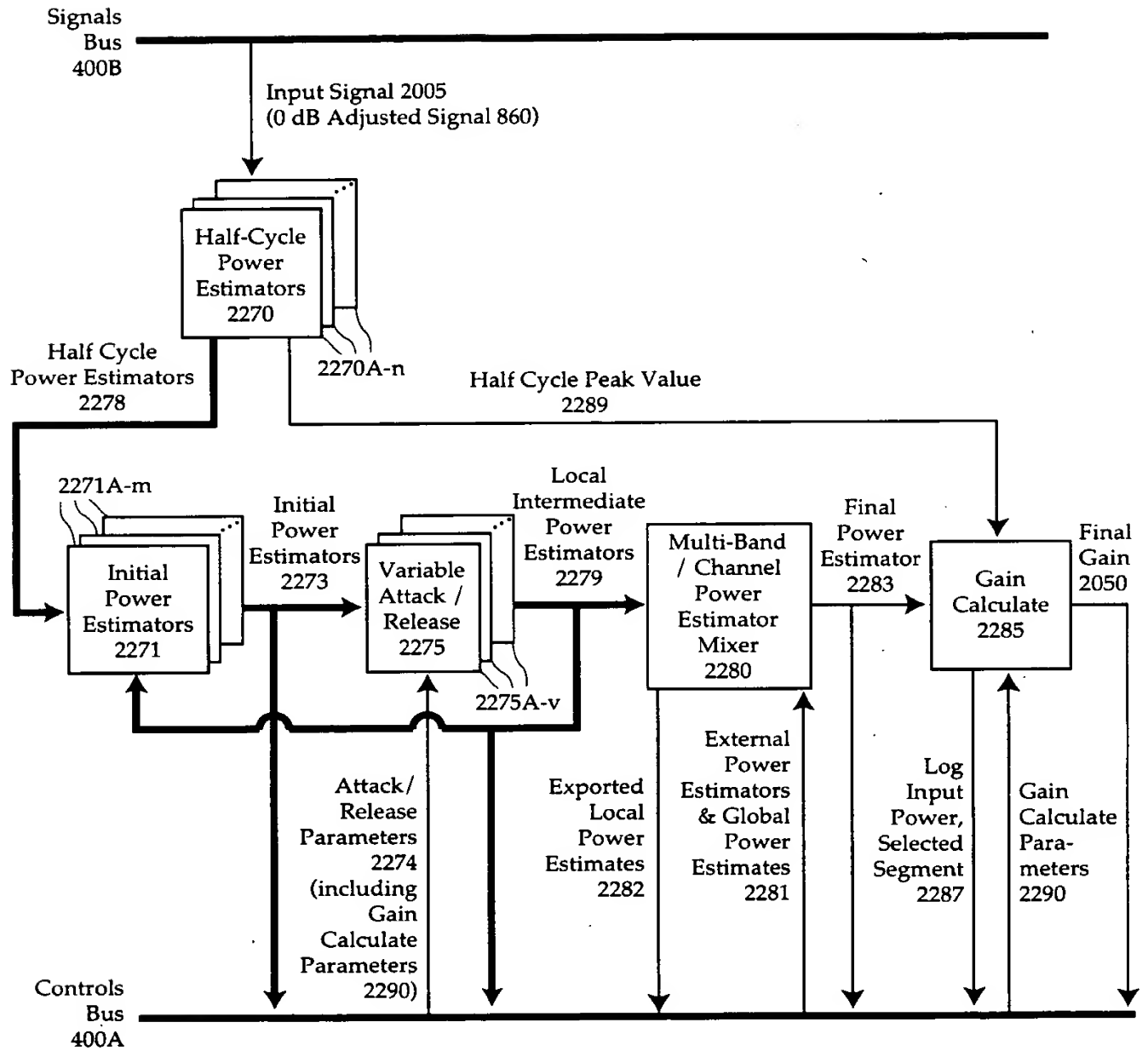


FIG. 22

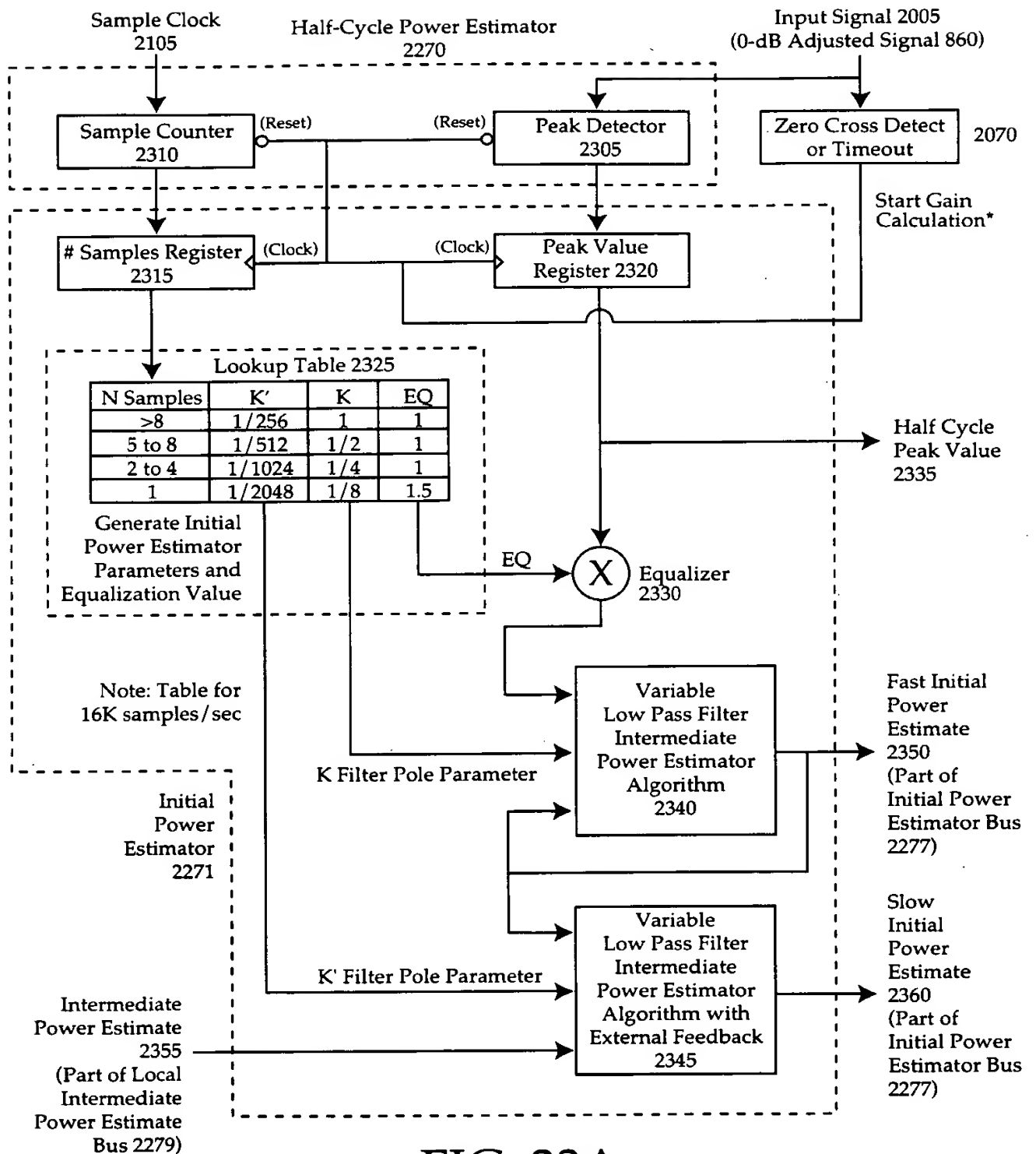


FIG. 23A

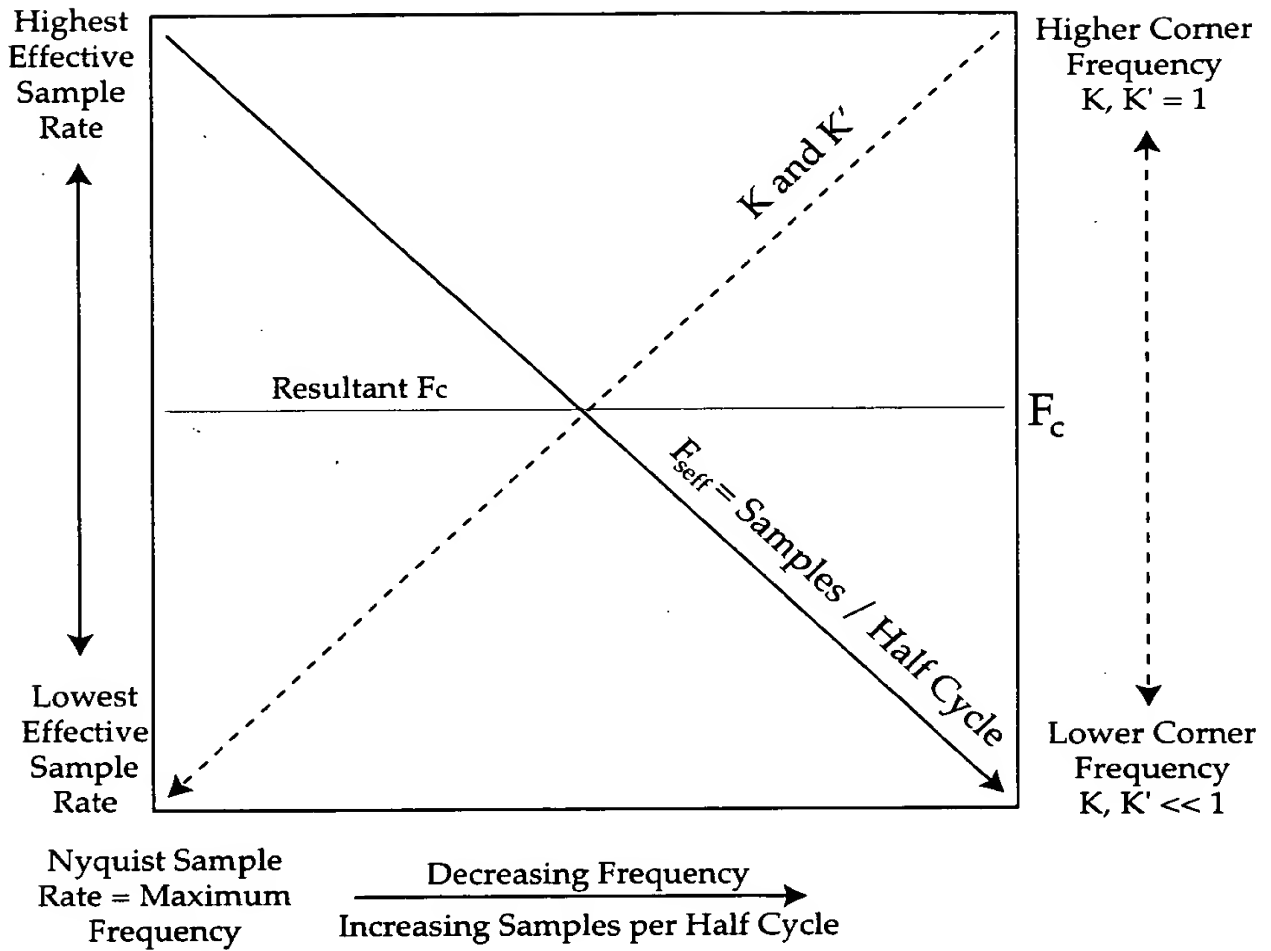
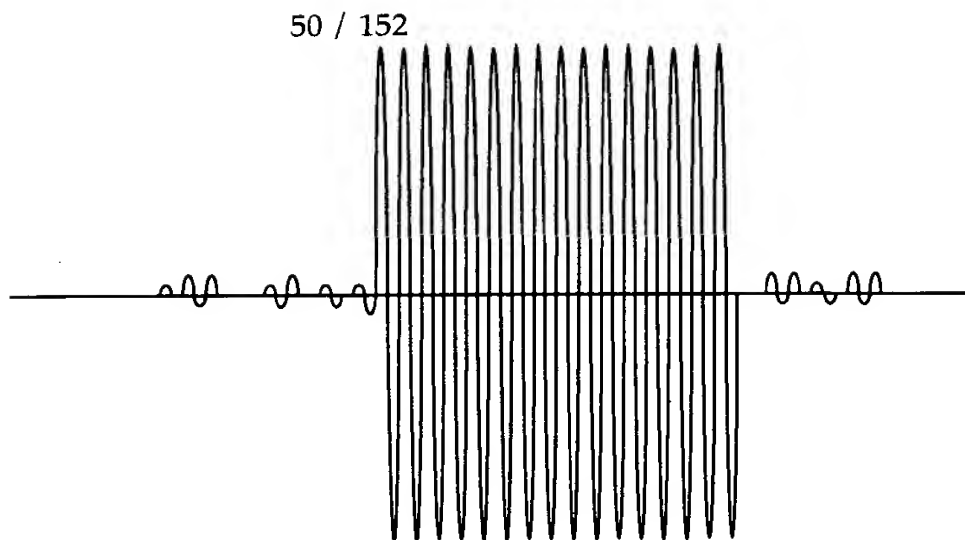
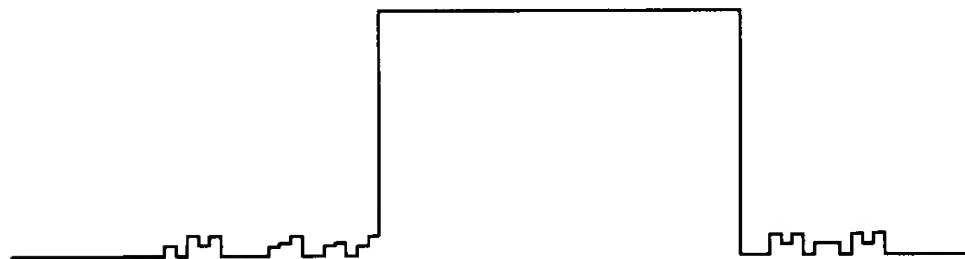


FIG. 23B

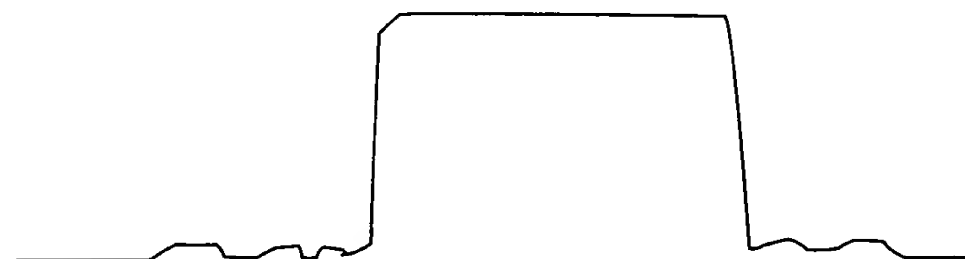
Input Signal
2005
(0-dB Adjusted
Signal 860)



Half Cycle
Peak Value
2289



Fast Initial
Power Estimate
2350



Intermediate
Power
Estimate
2355

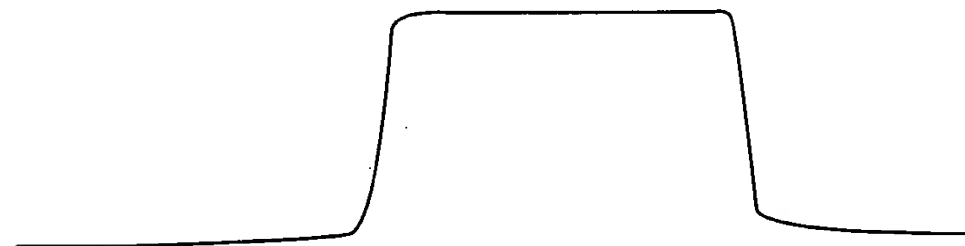


FIG. 23C

09727269 112900

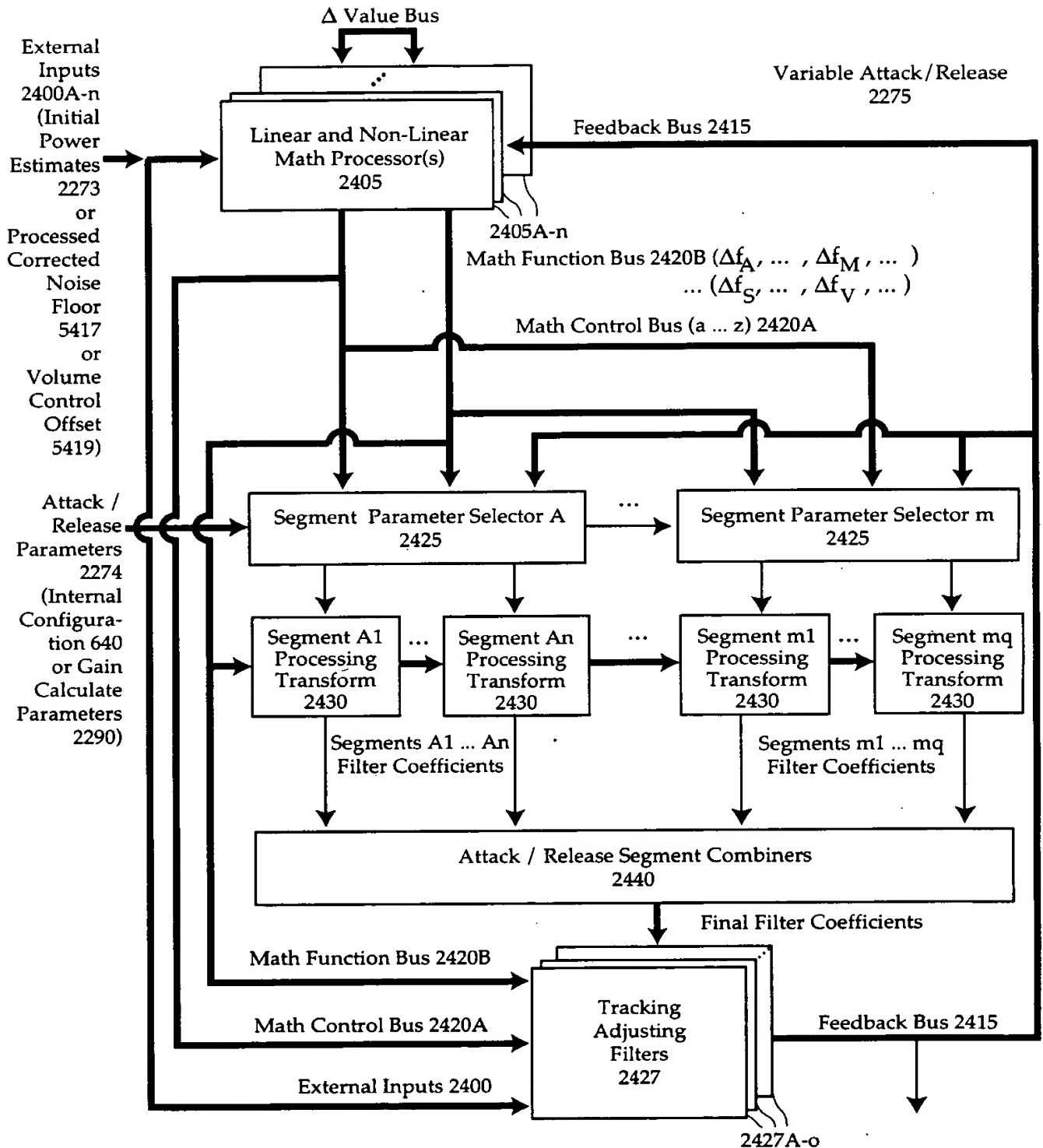


FIG. 24A

Local Intermediate Power Estimates 2279
or Long Duration Noise Floor 5425
or Long Duration Noise Offset 5427

00627T 692260

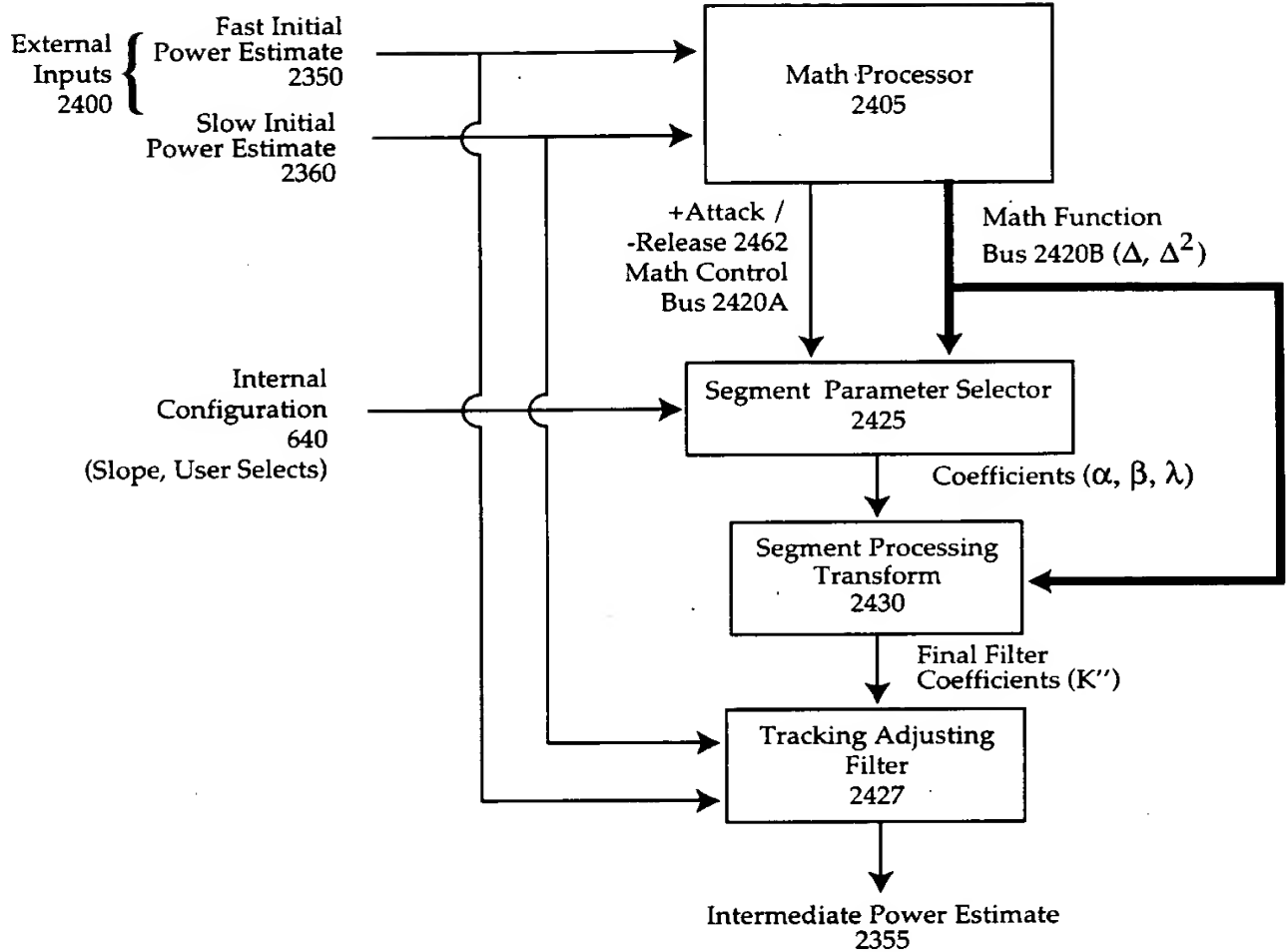


FIG. 24B

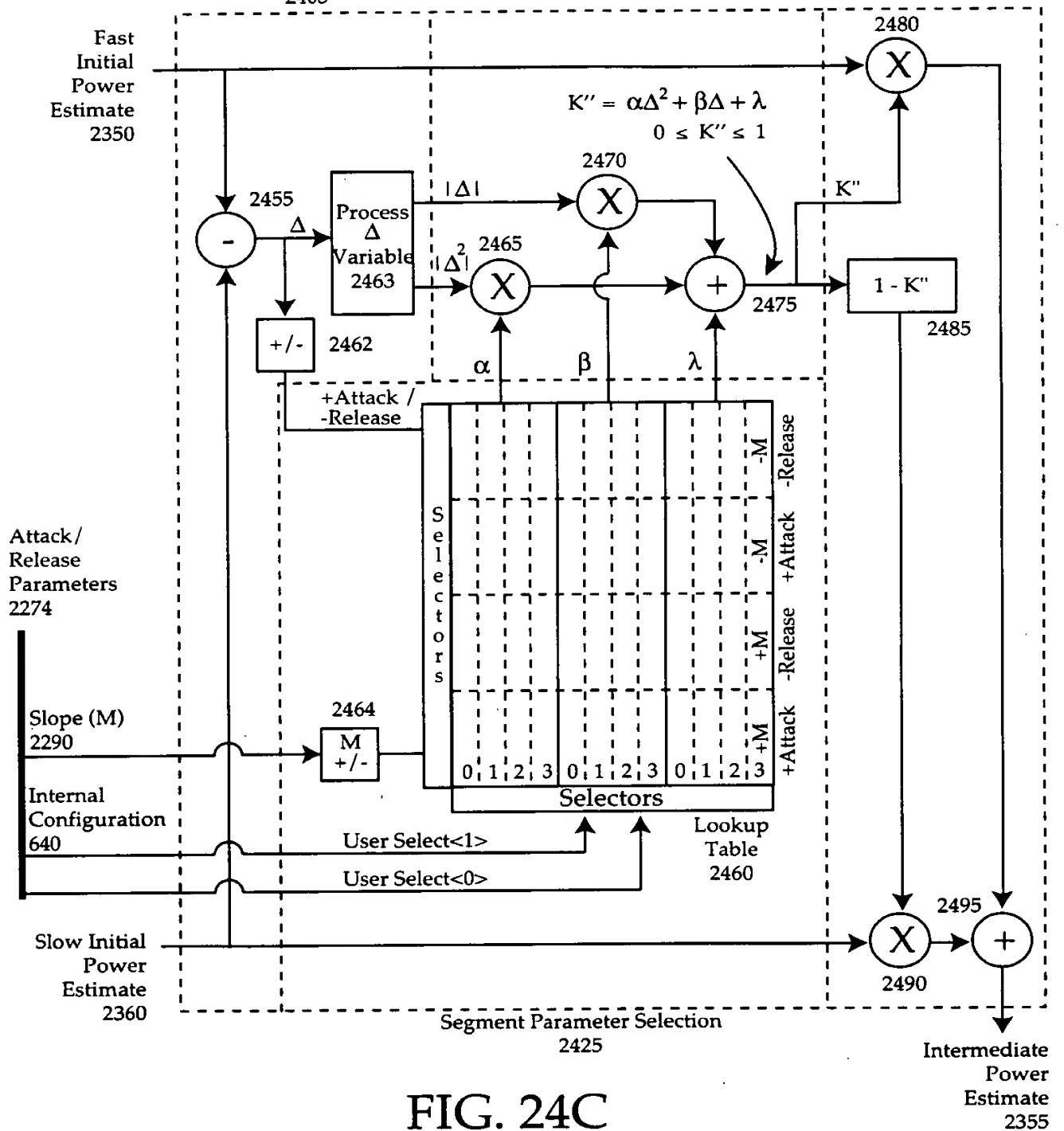


FIG. 24C

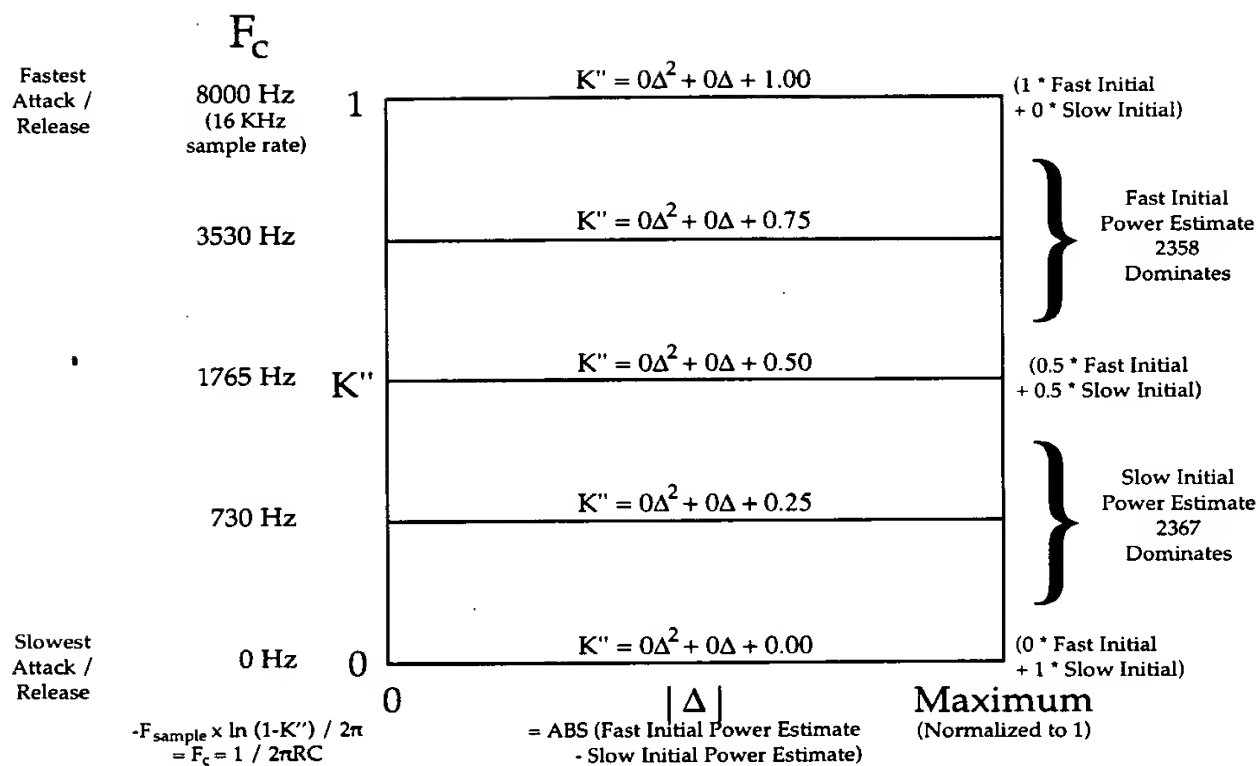
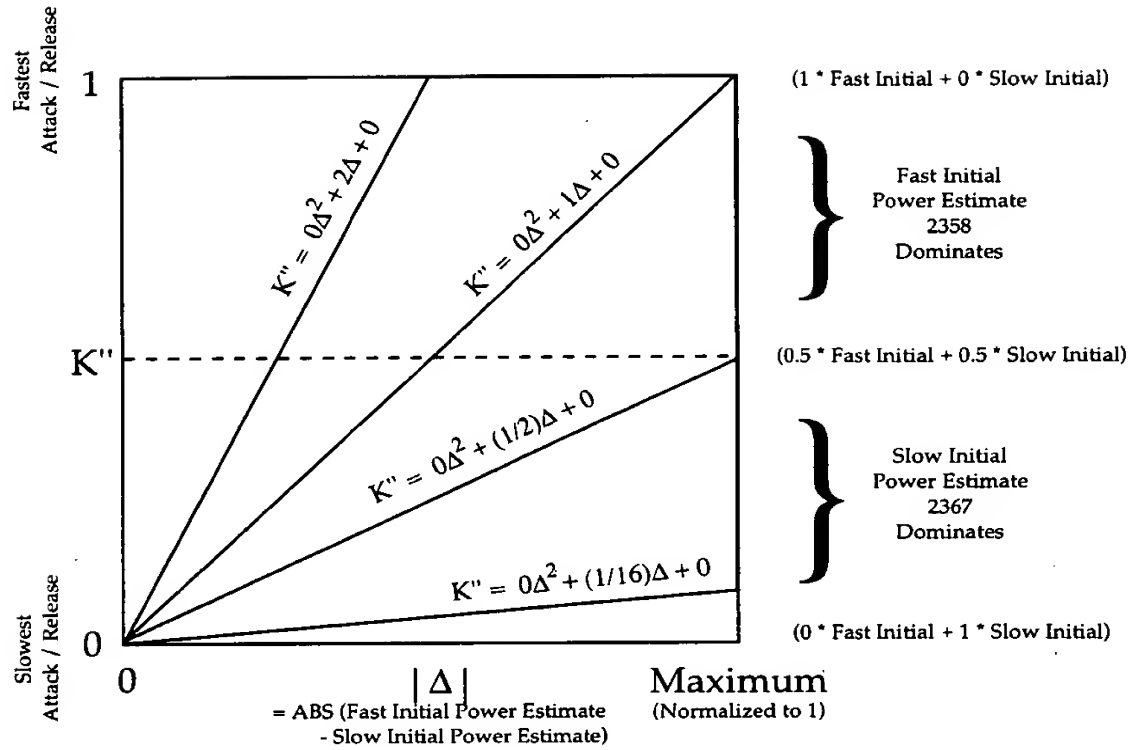


FIG. 24D



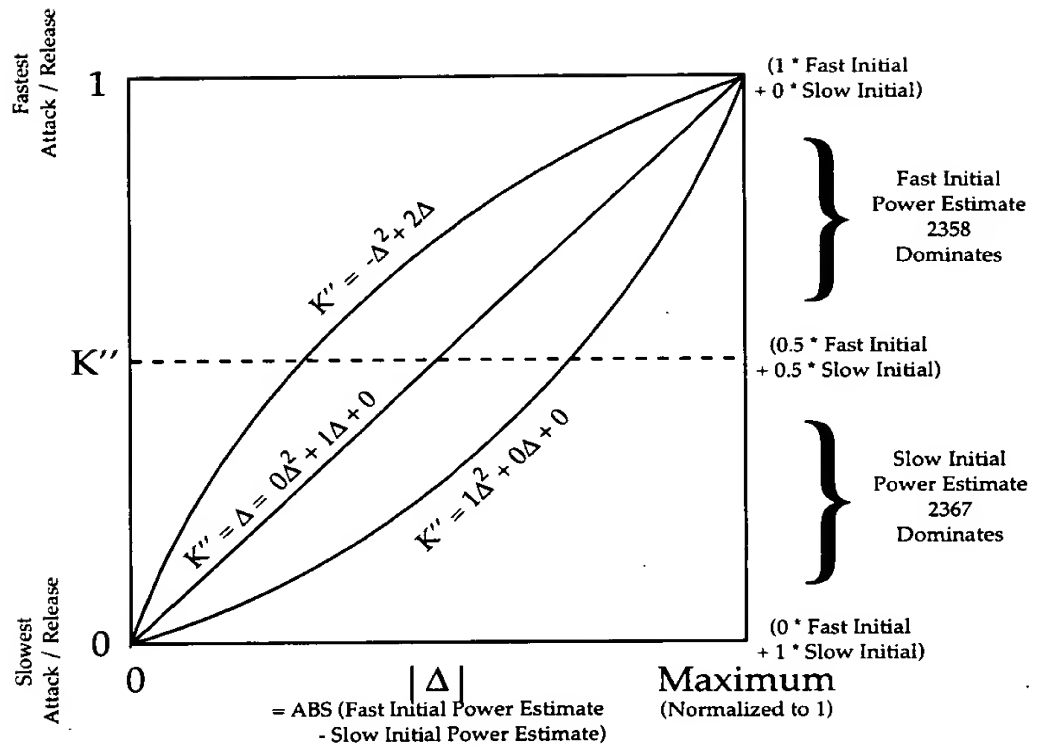


FIG. 24F

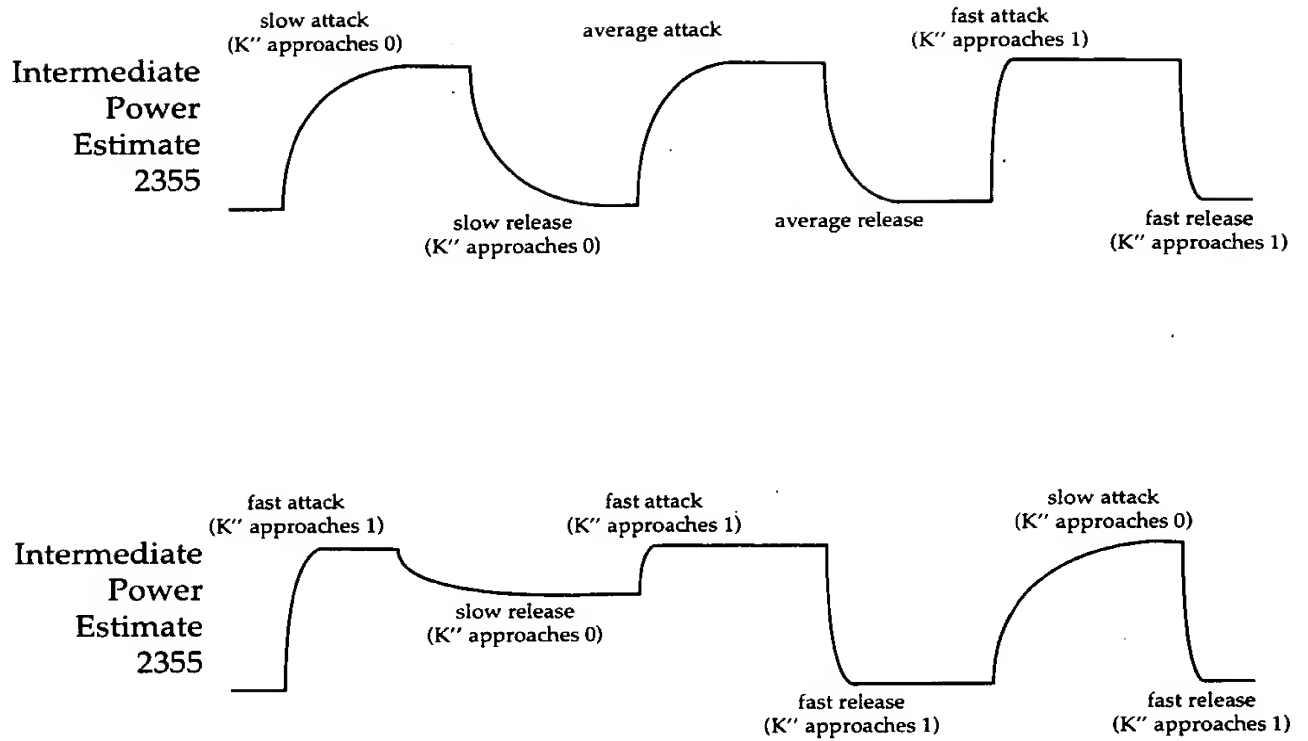


FIG. 24G

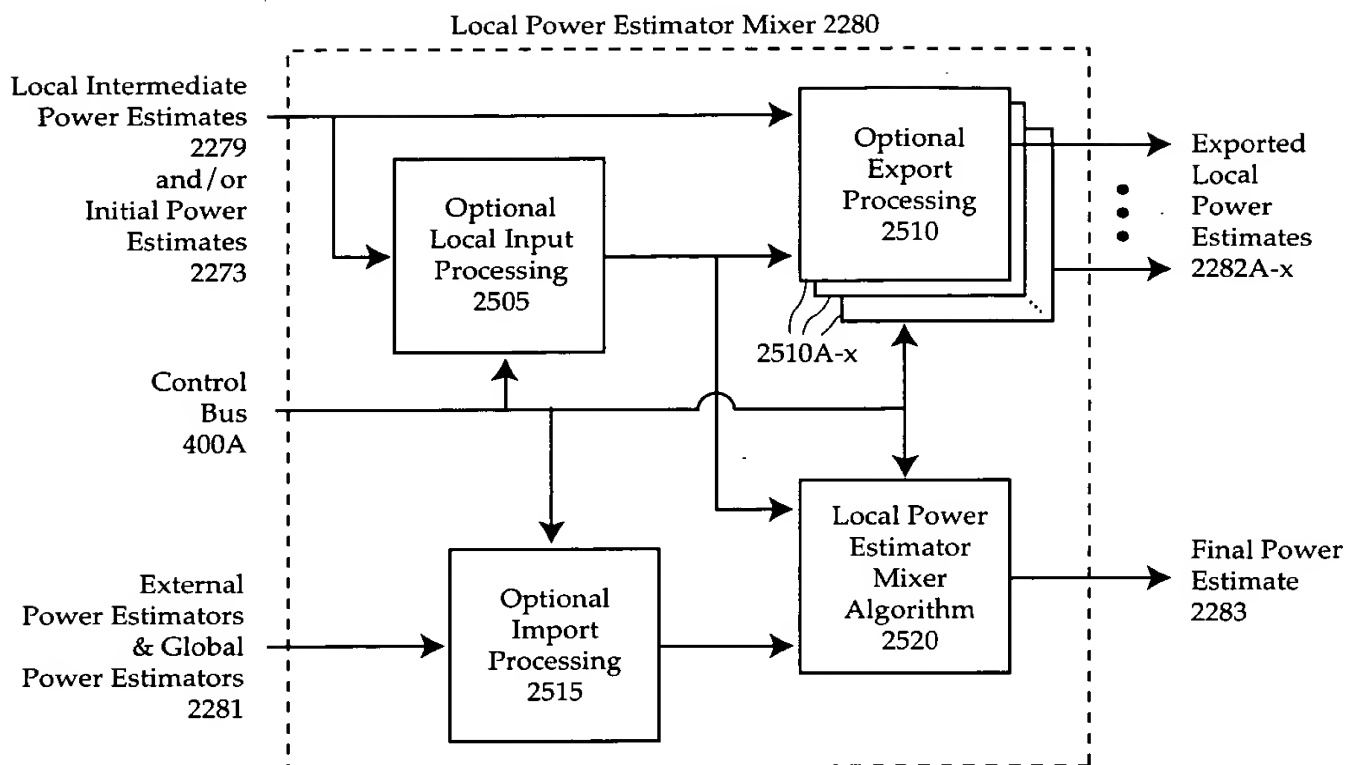


FIG. 25A

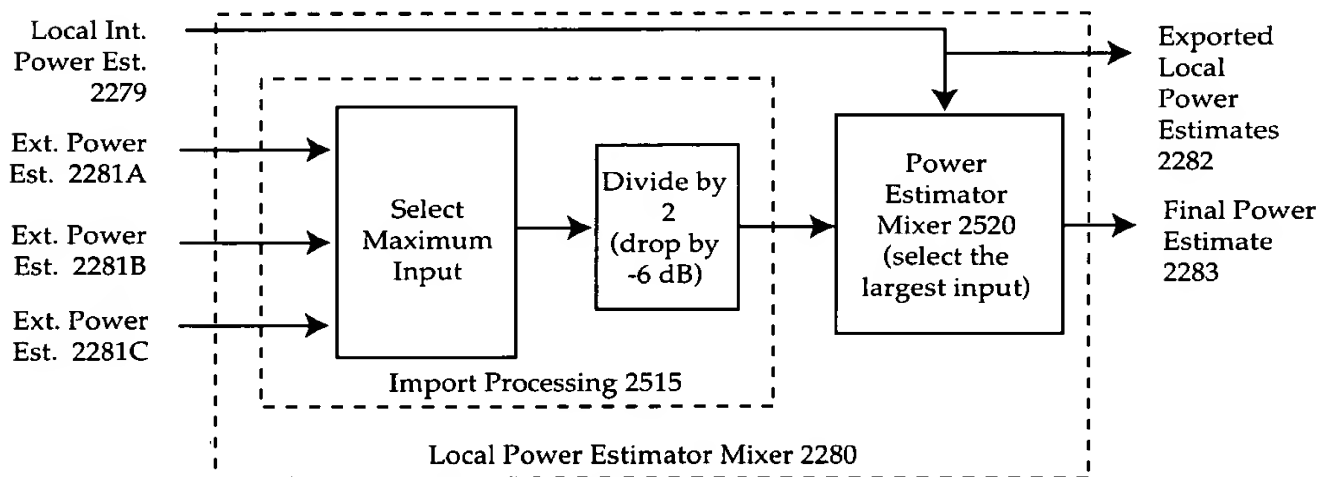


FIG. 25B

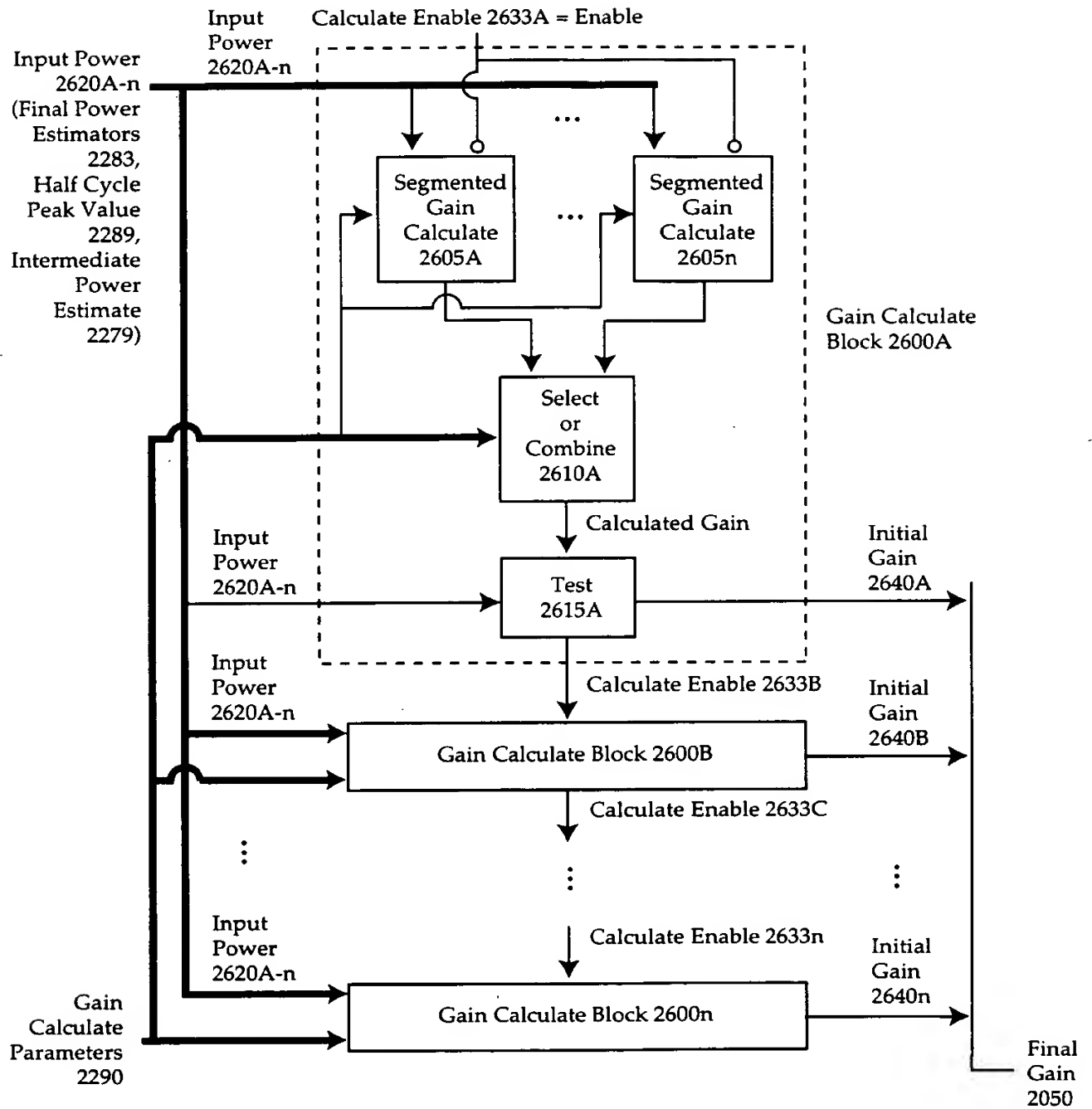


FIG. 26A

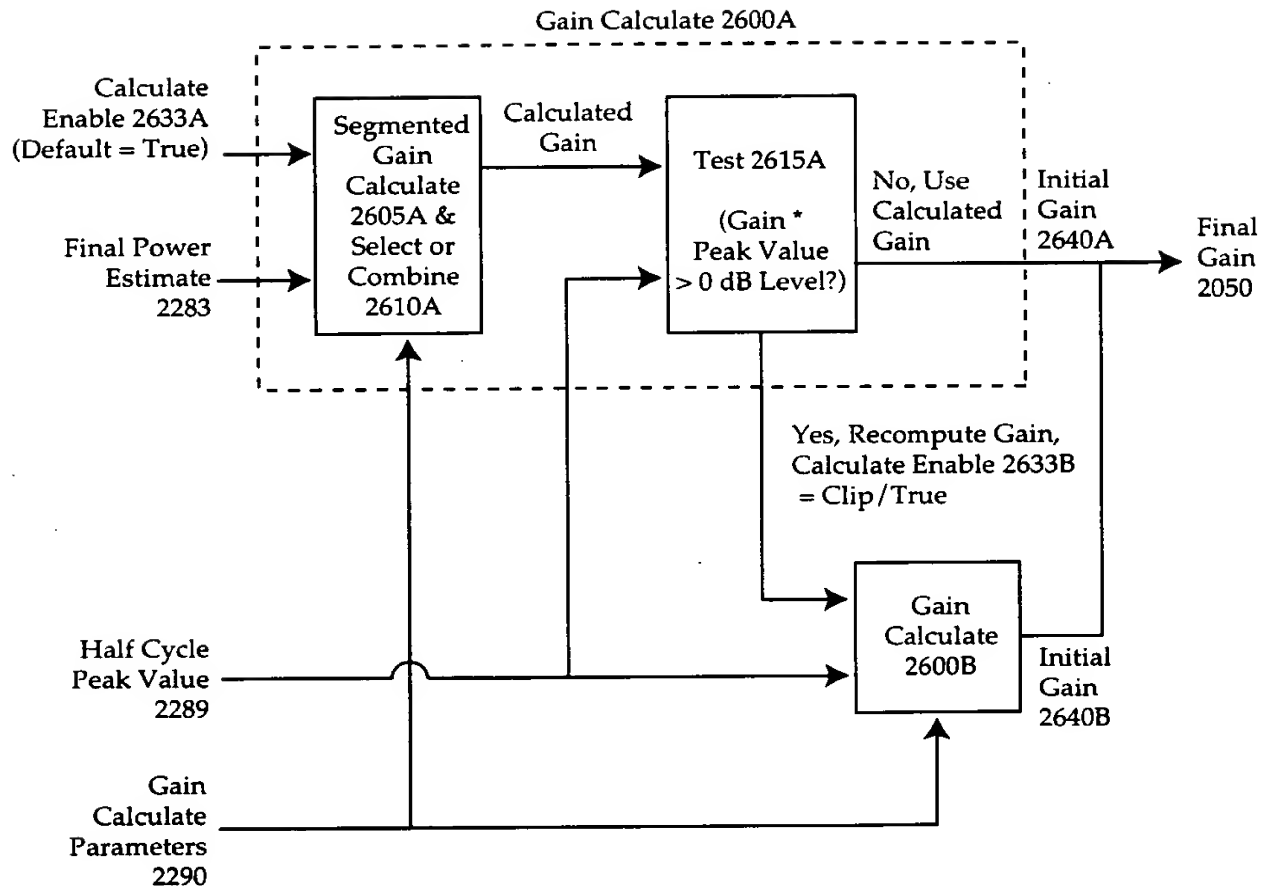


FIG. 26B

0972269-12900

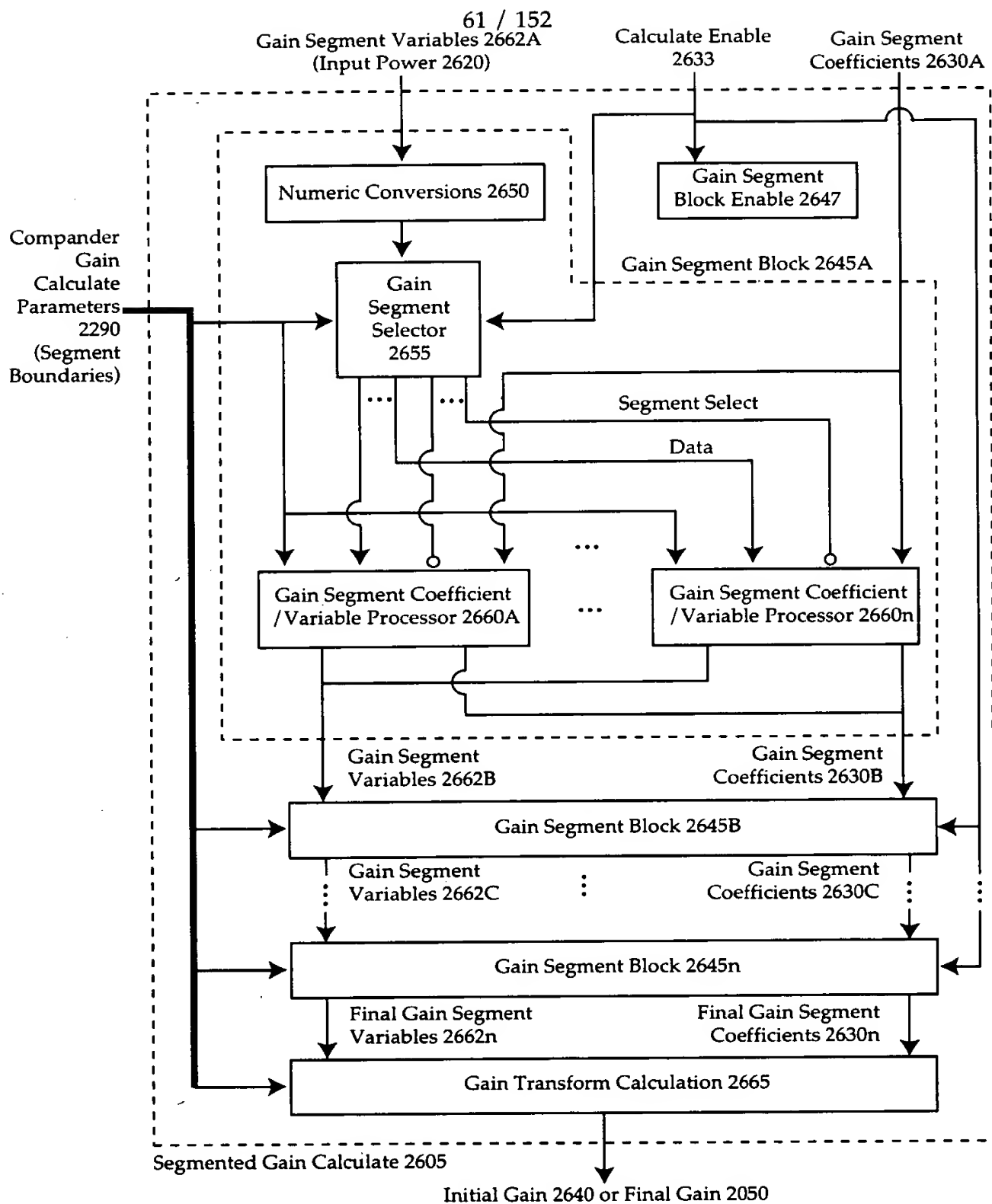


FIG. 26C

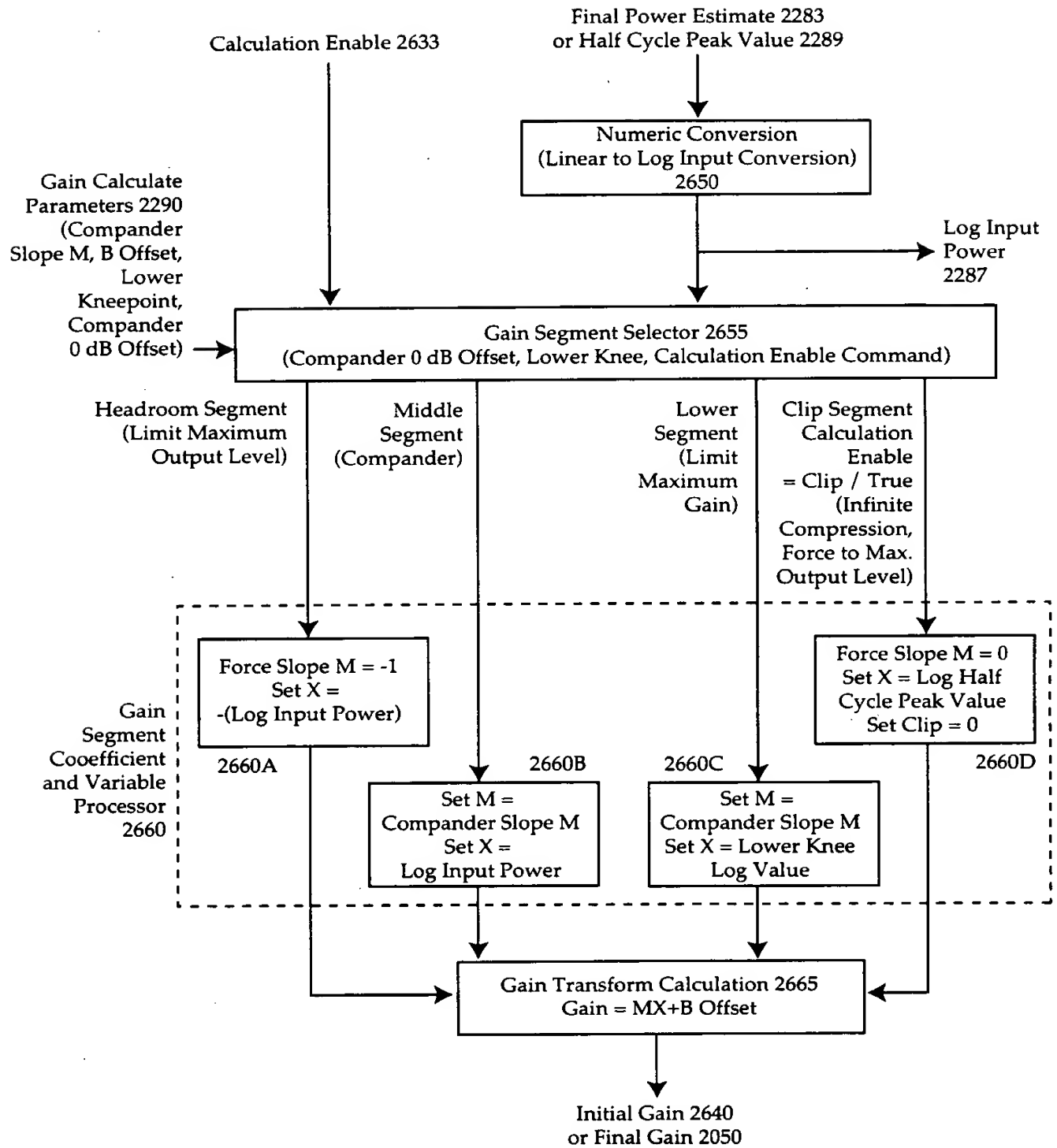


FIG. 26D

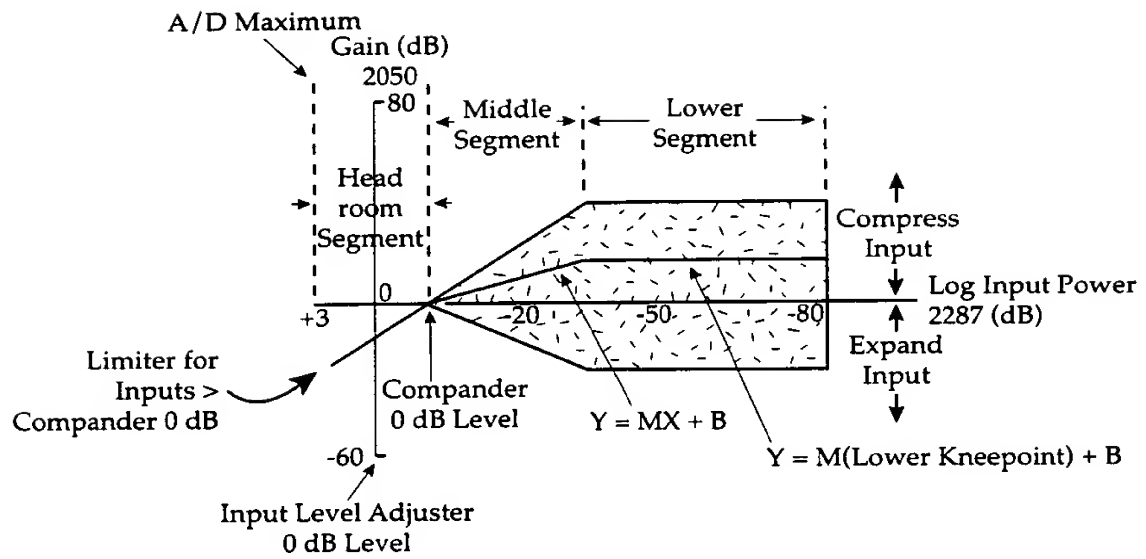


FIG. 26E

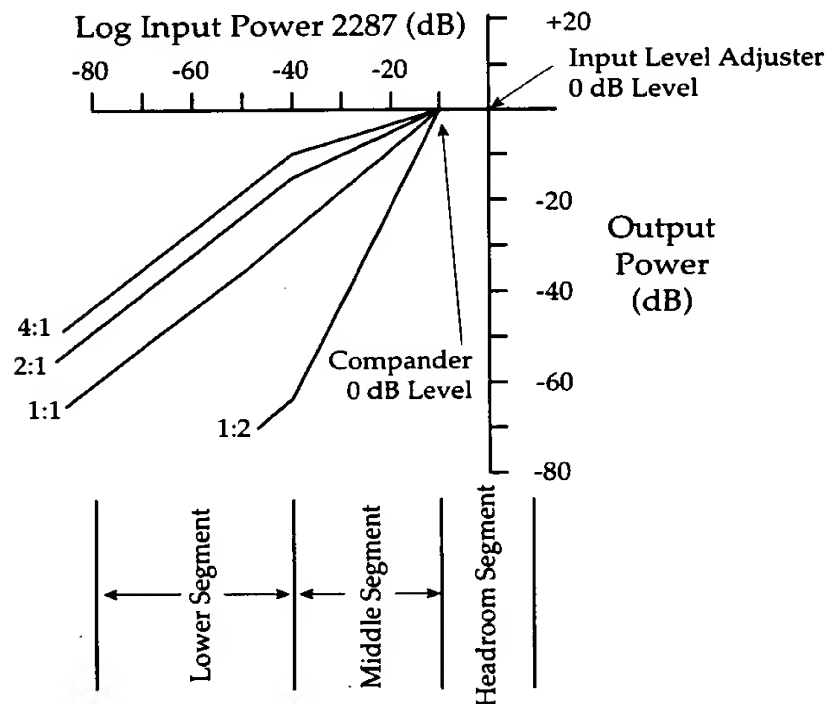


FIG. 26F



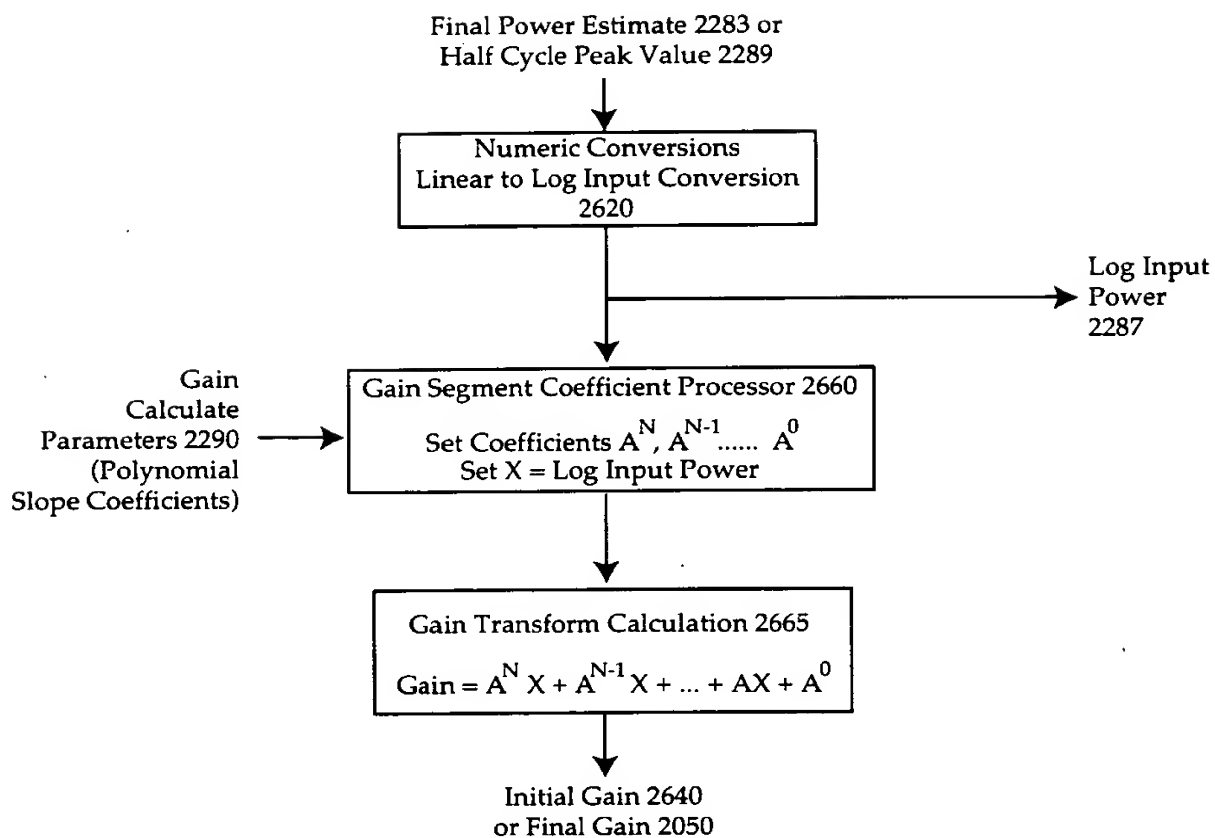


FIG. 26H

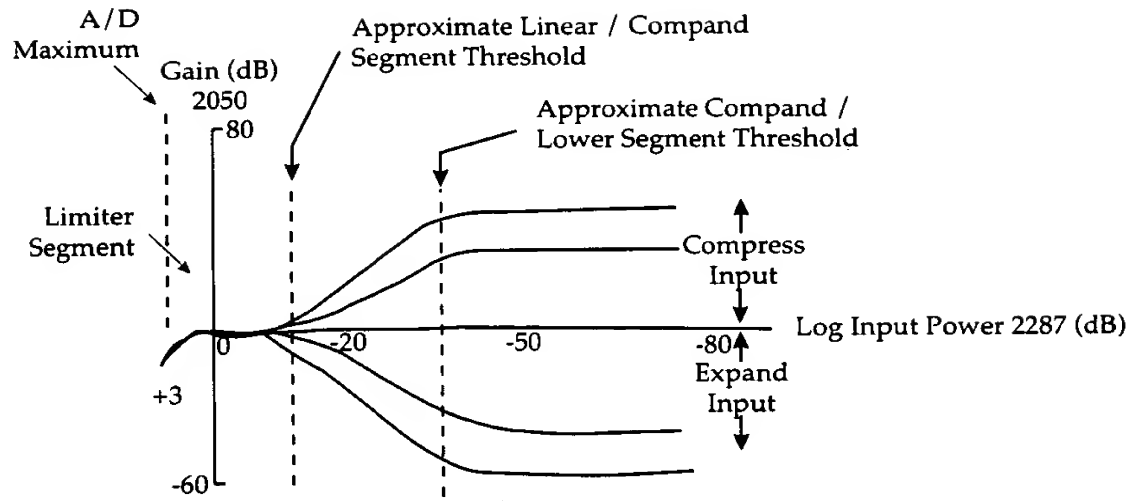


FIG. 26I

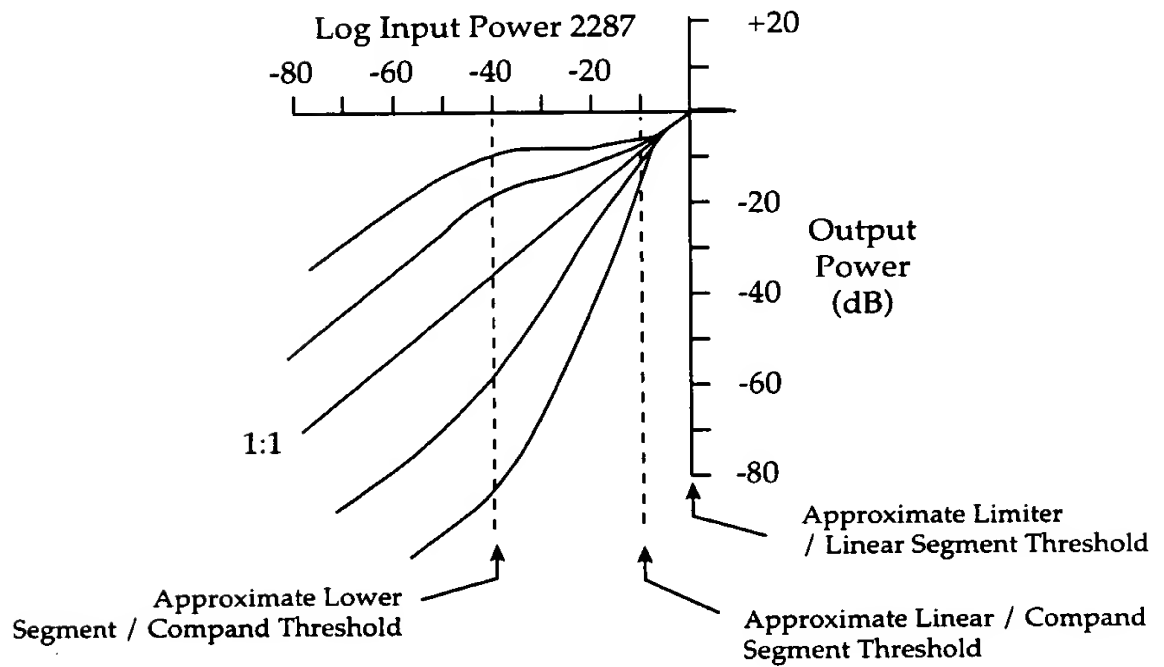


FIG. 26J

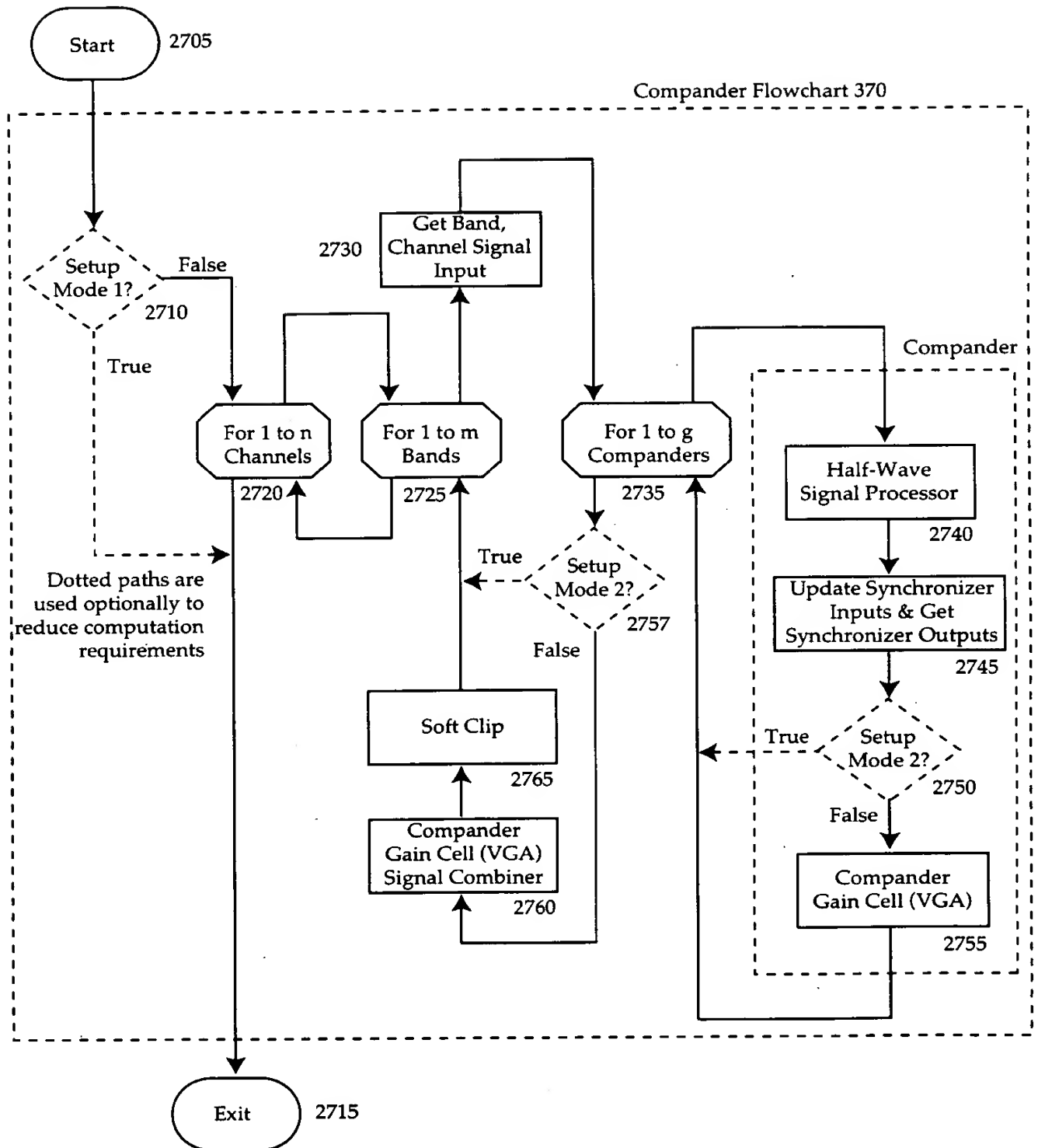


FIG. 27A

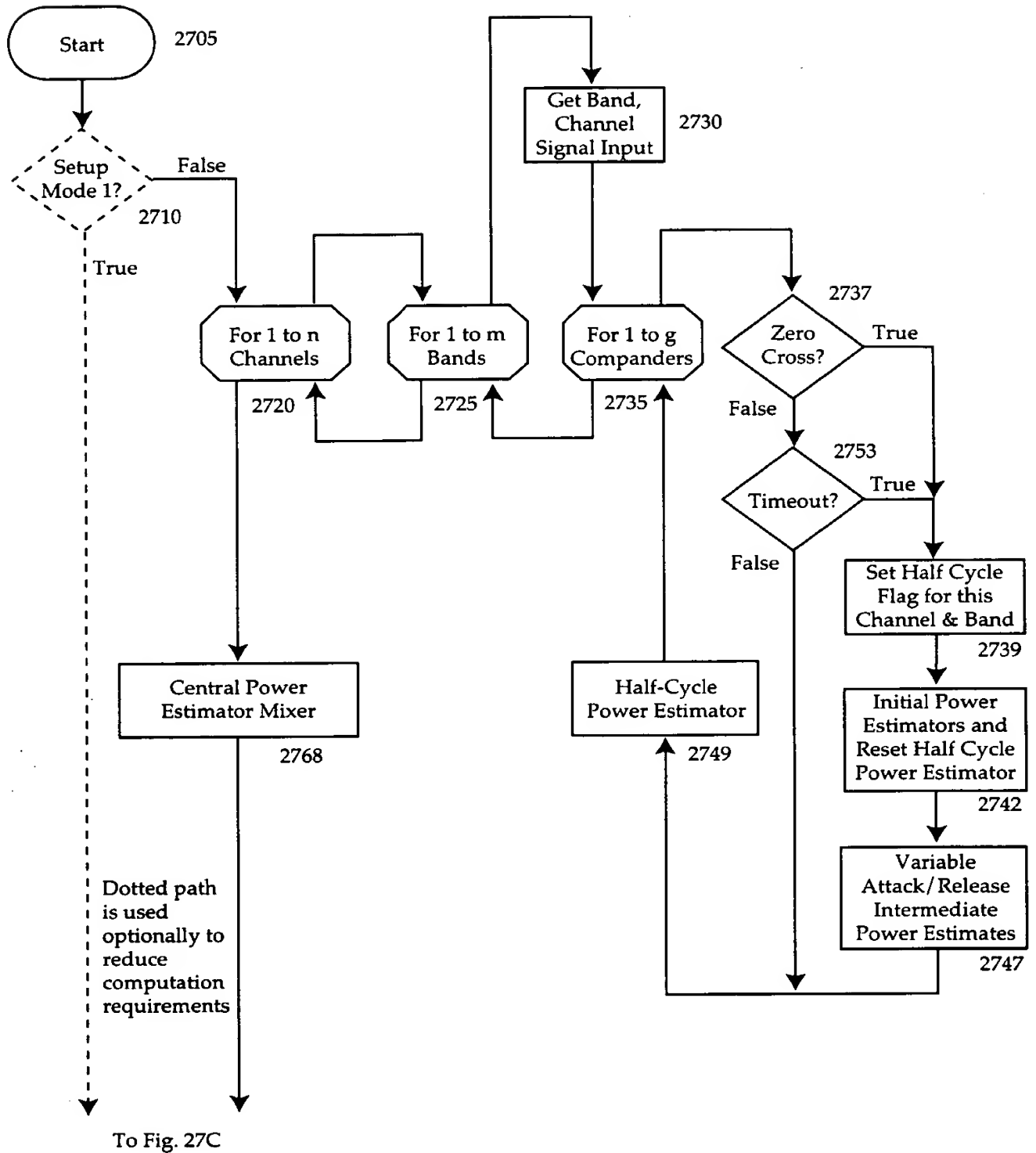


FIG. 27B

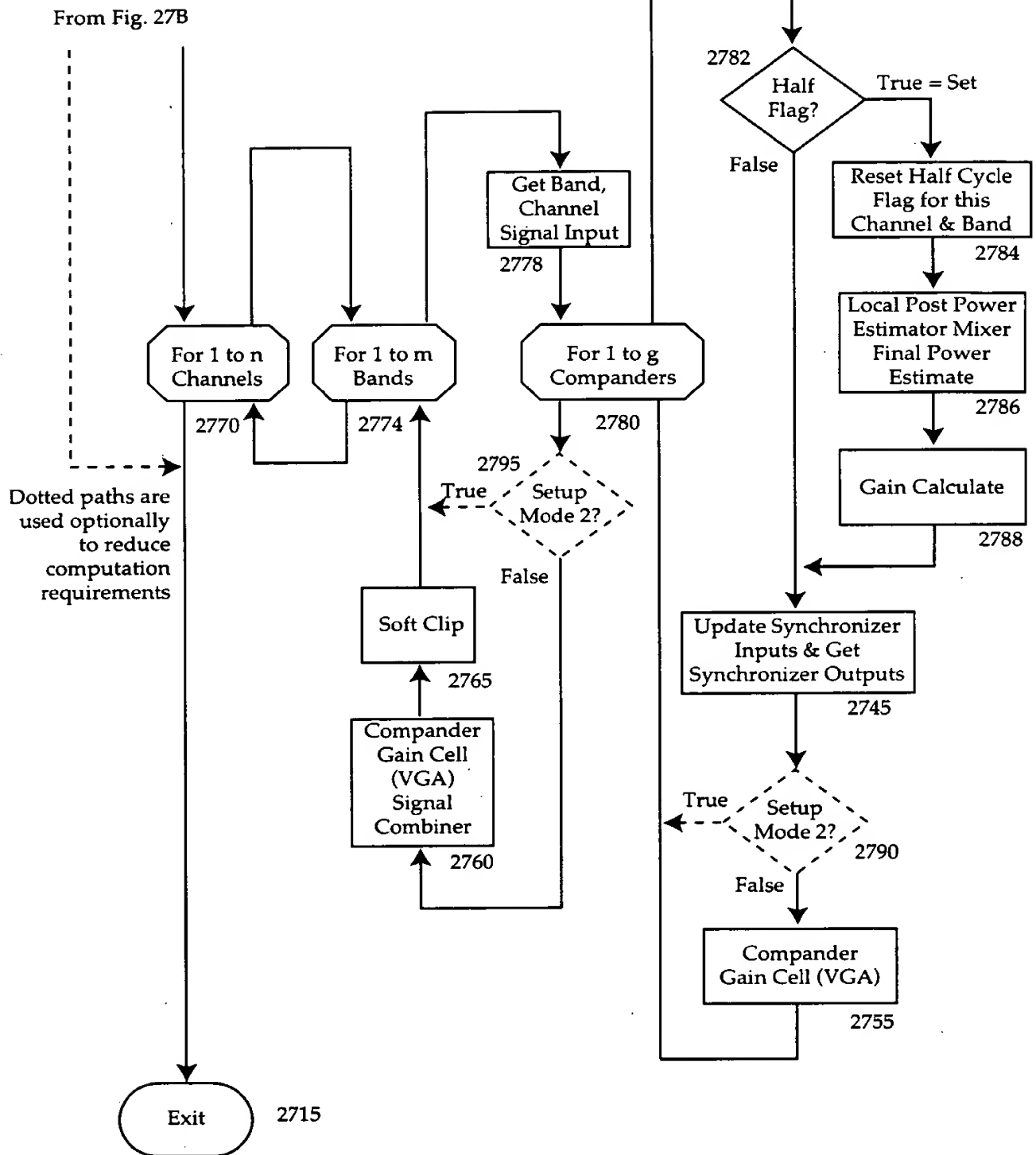


FIG. 27C

00627269-112900

006277" 6922260

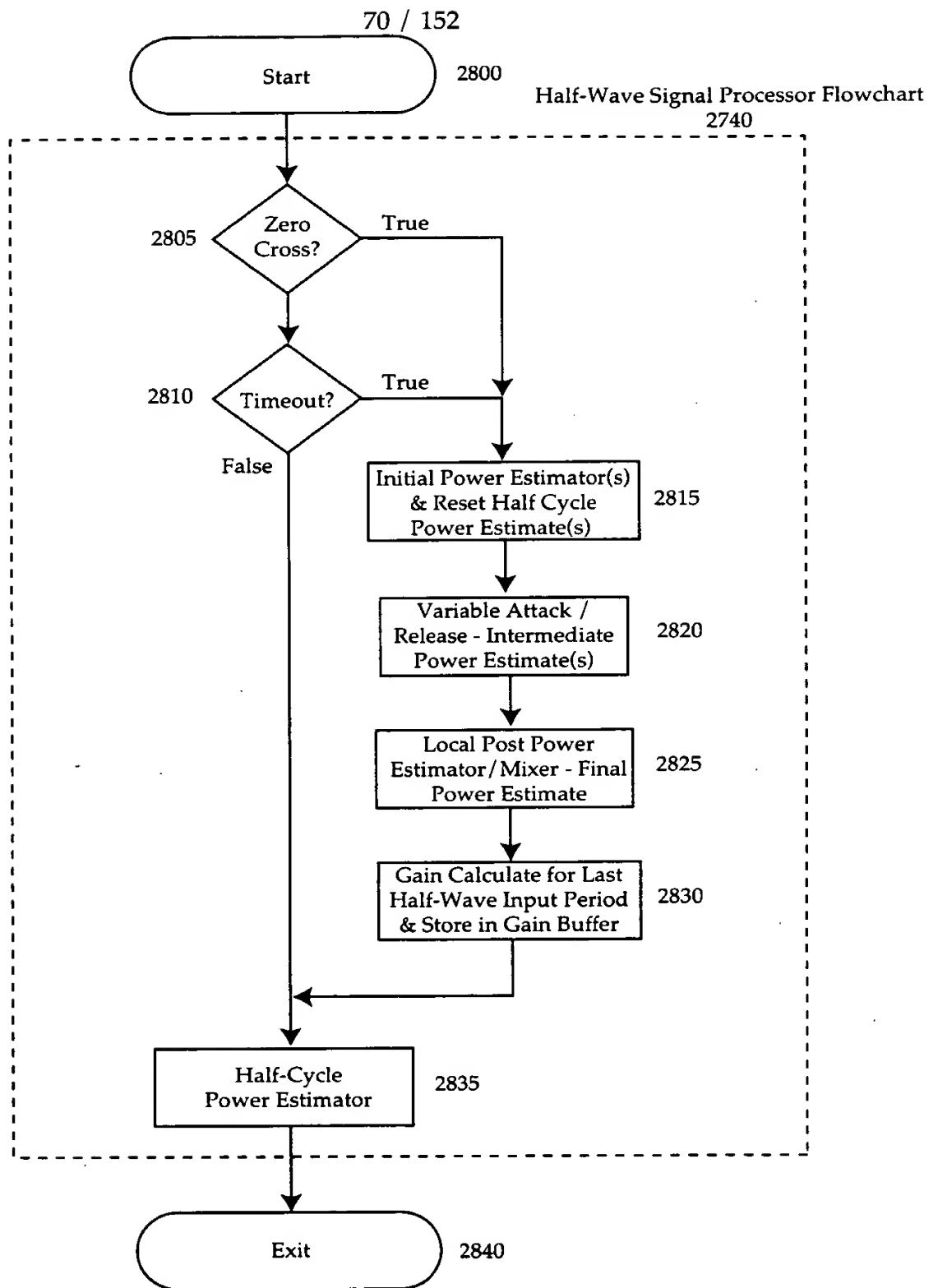


FIG. 28

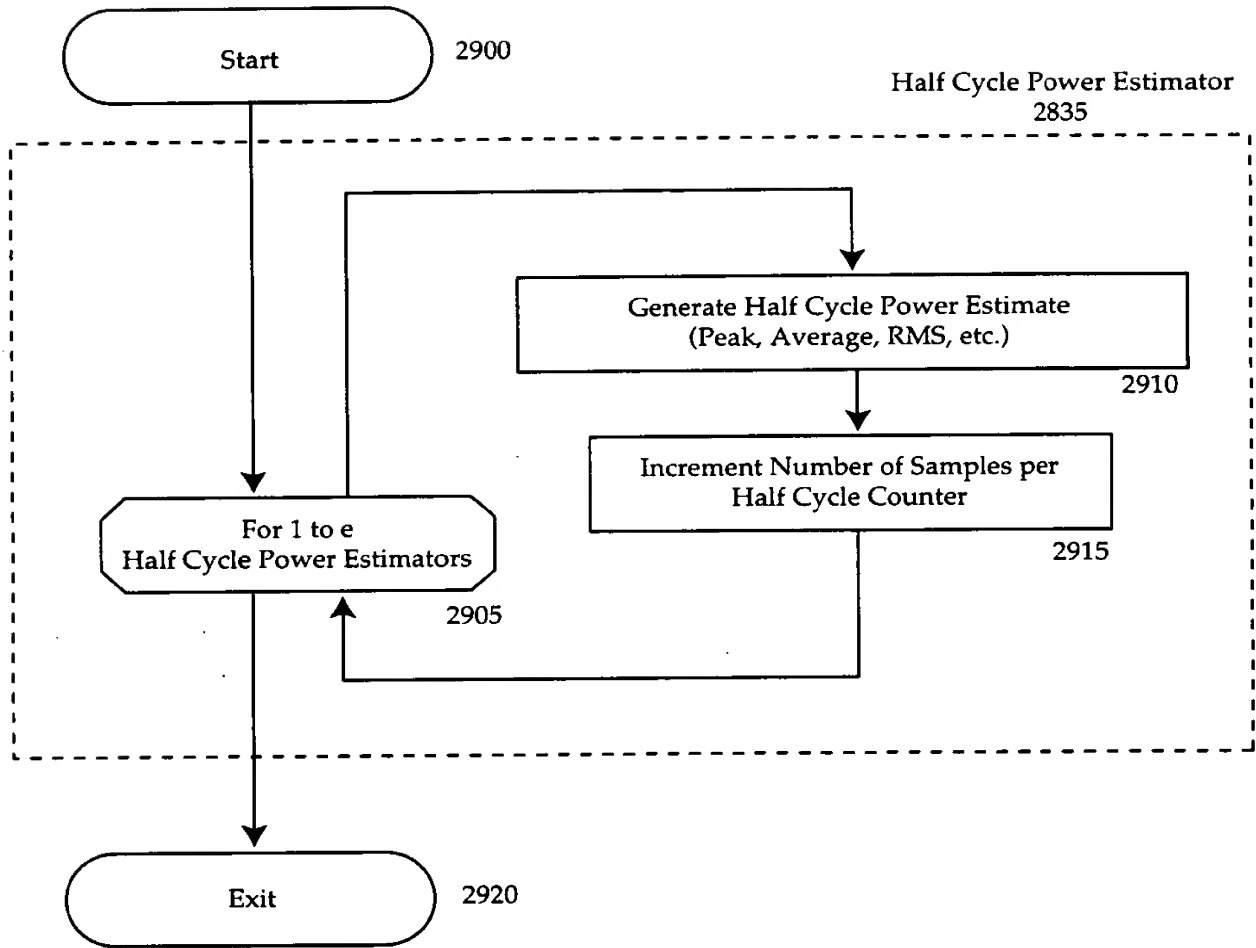


FIG. 29

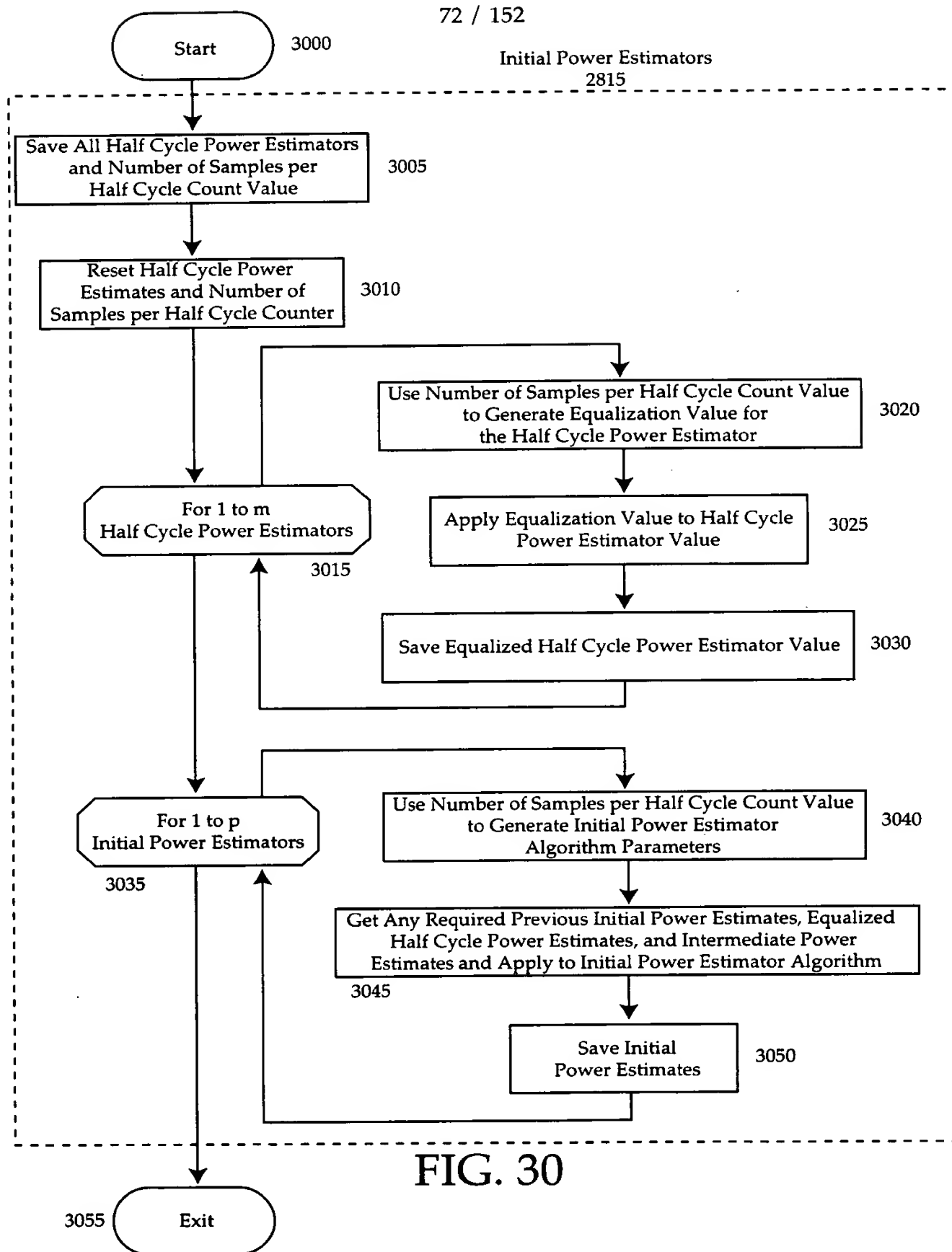
Initial Power Estimators
2815

FIG. 30

006211-6922260

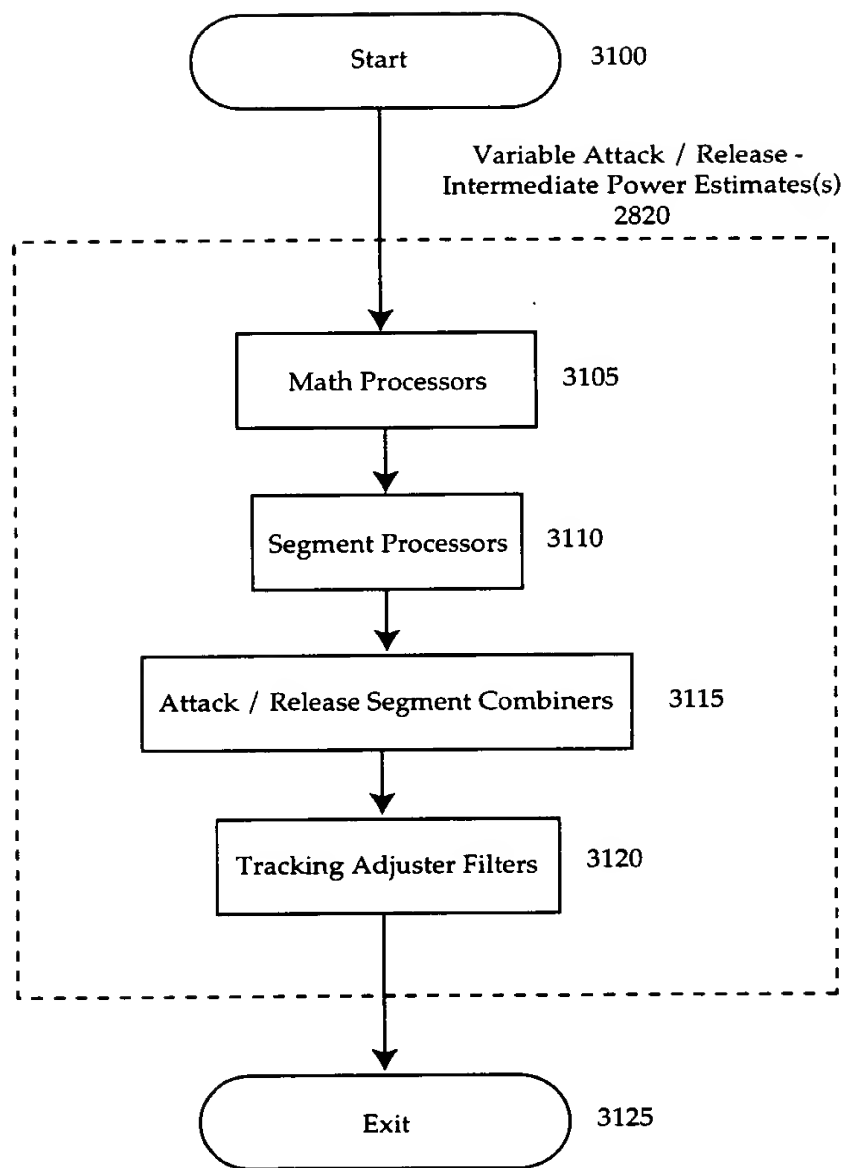


FIG. 31

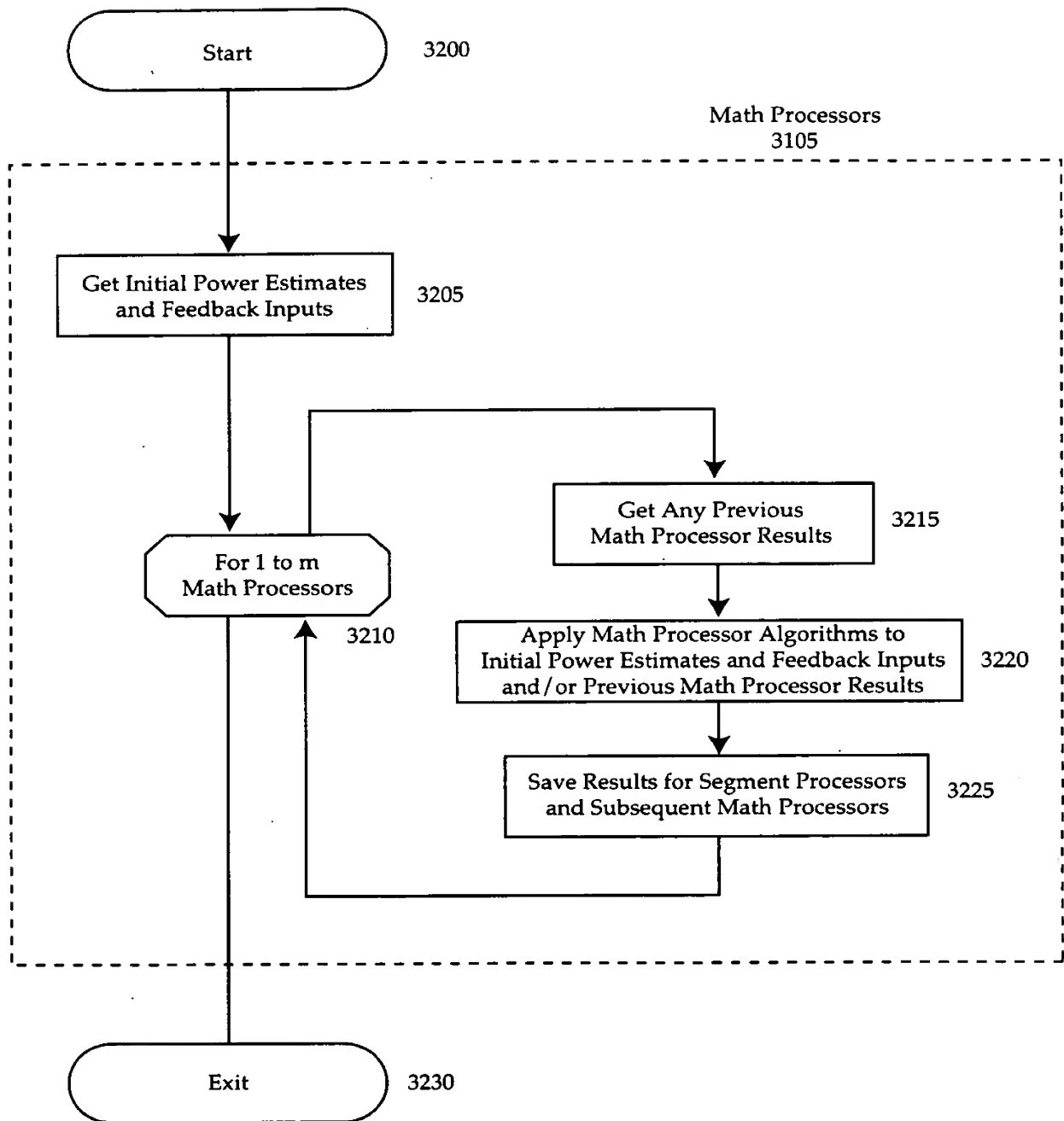


FIG. 32

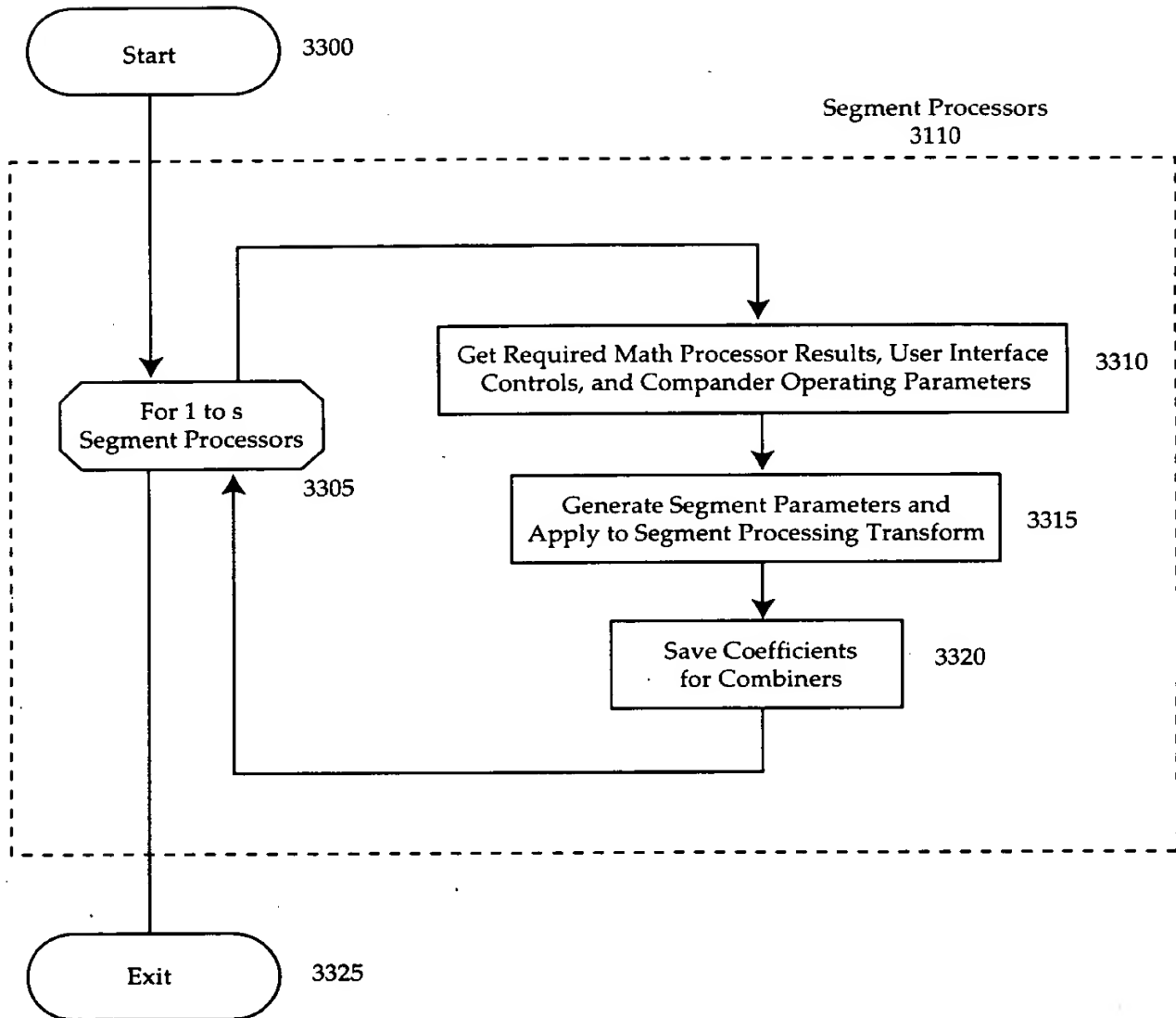


FIG. 33

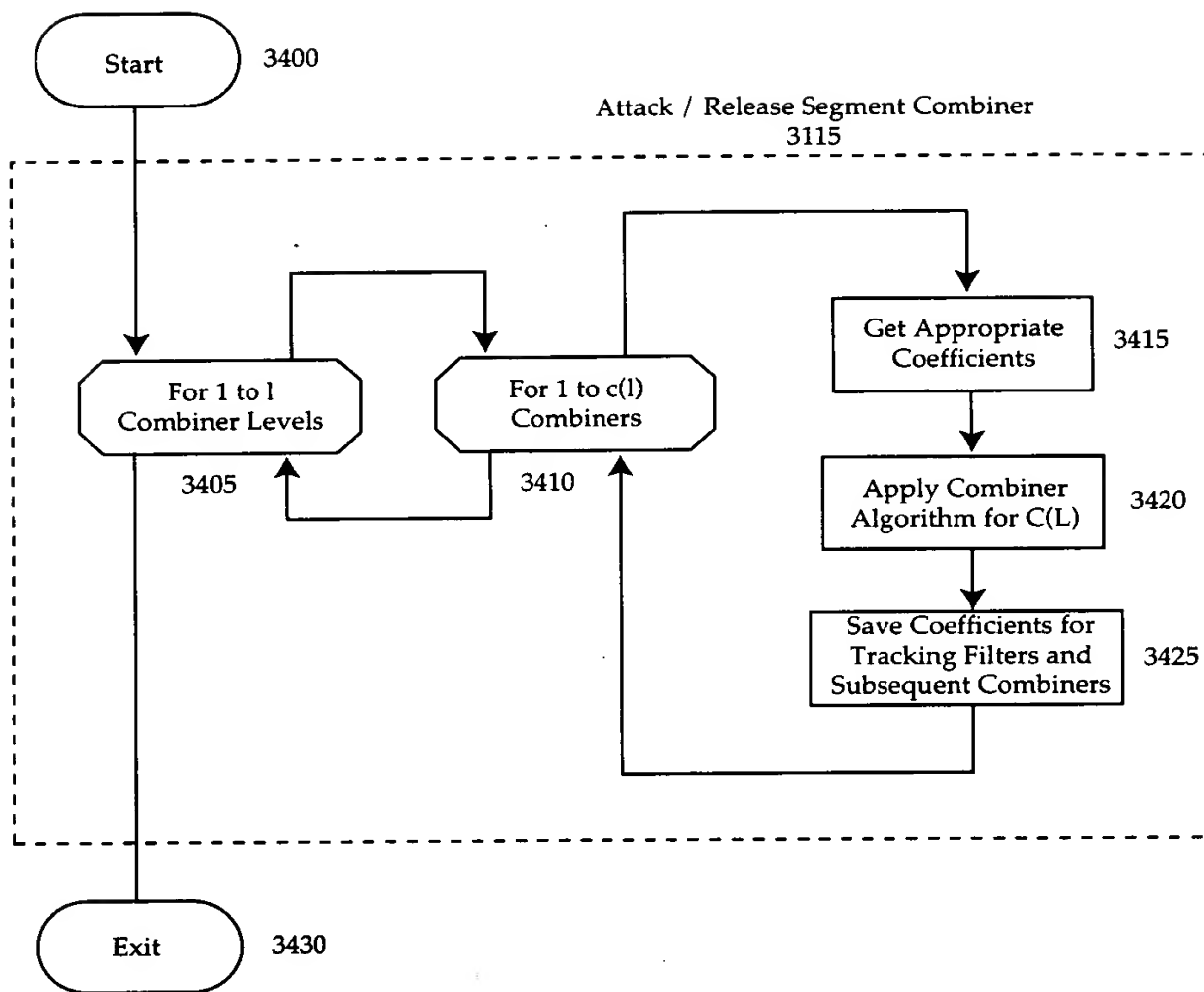


FIG. 34

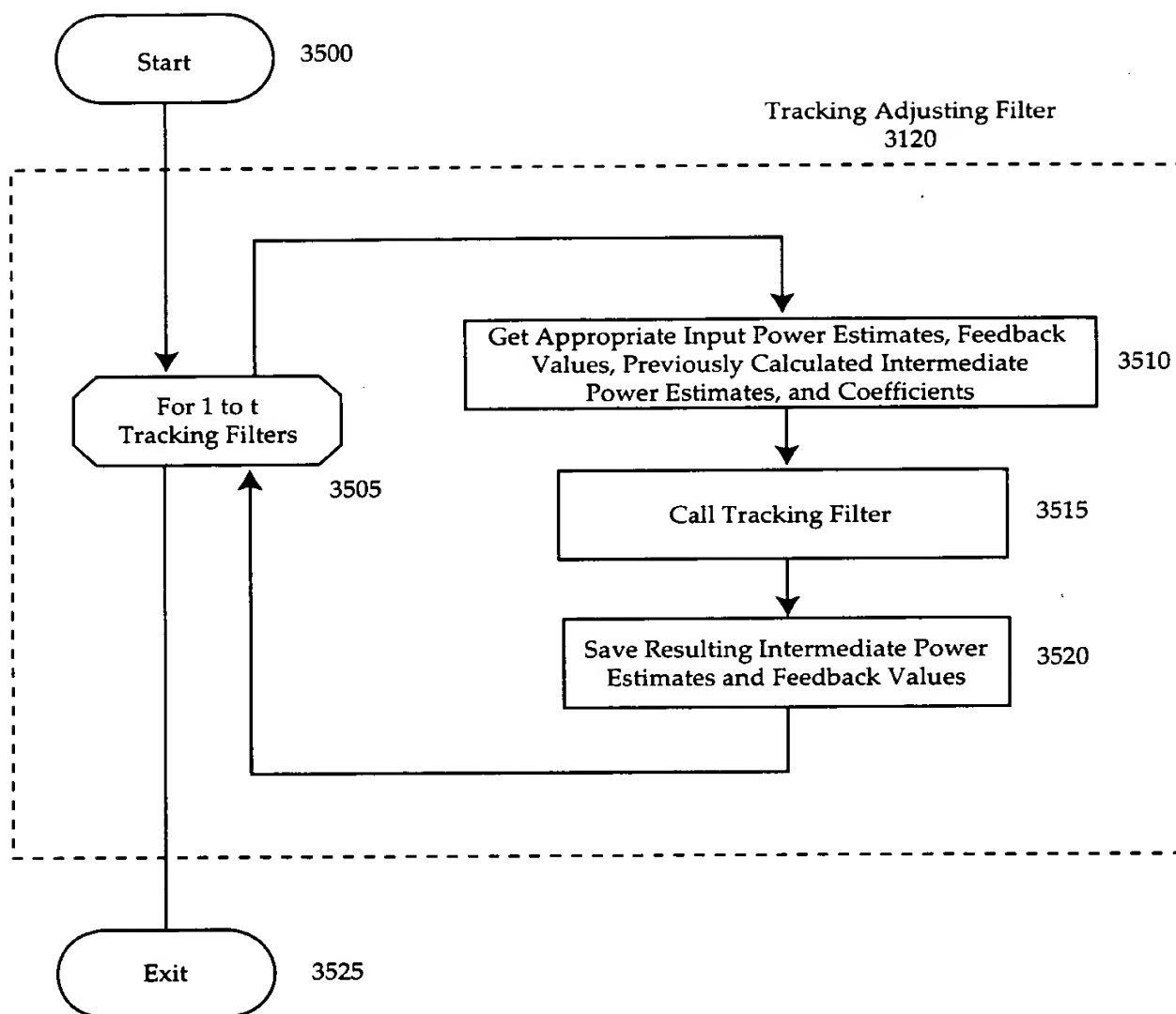


FIG. 35

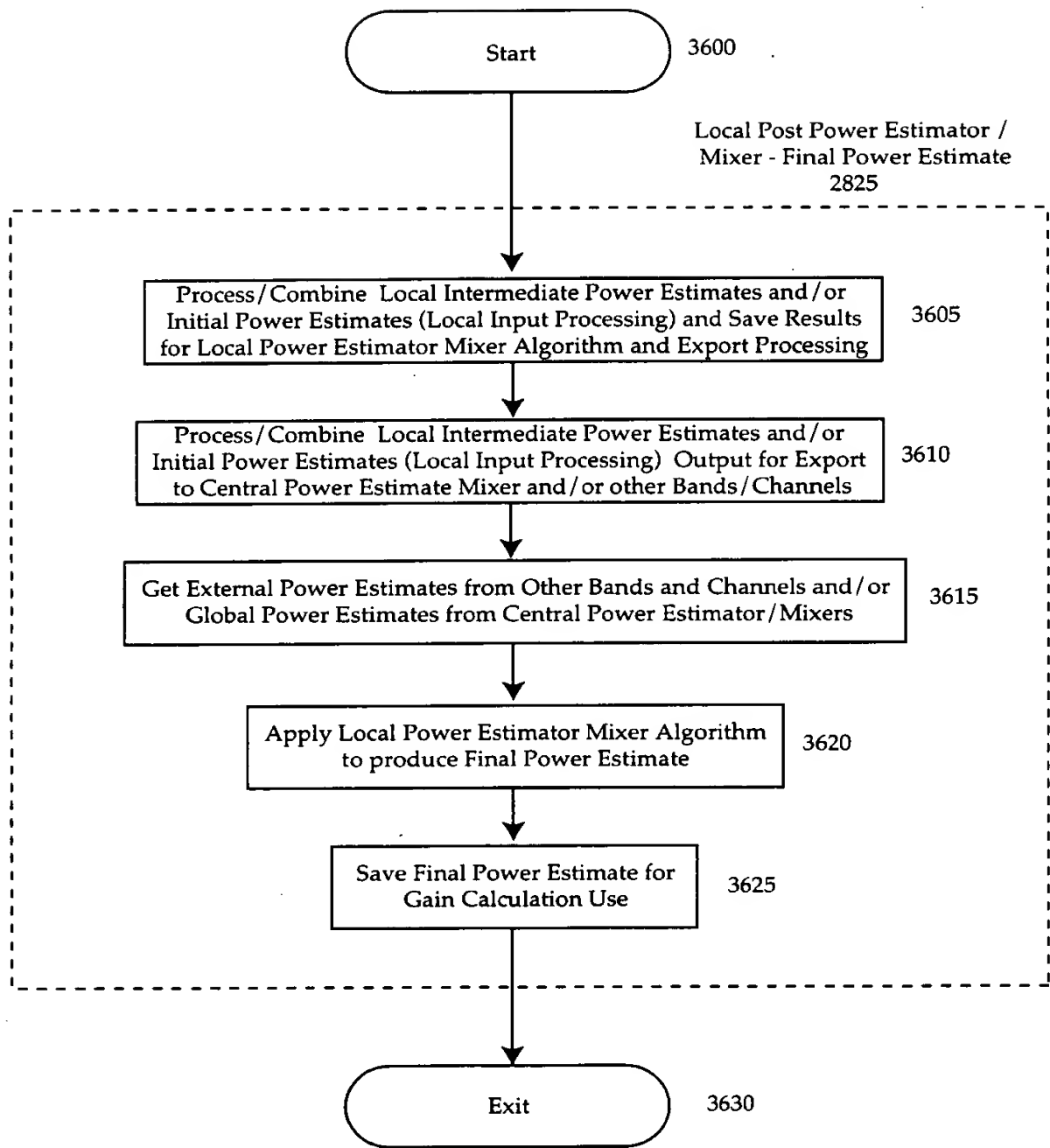


FIG. 36

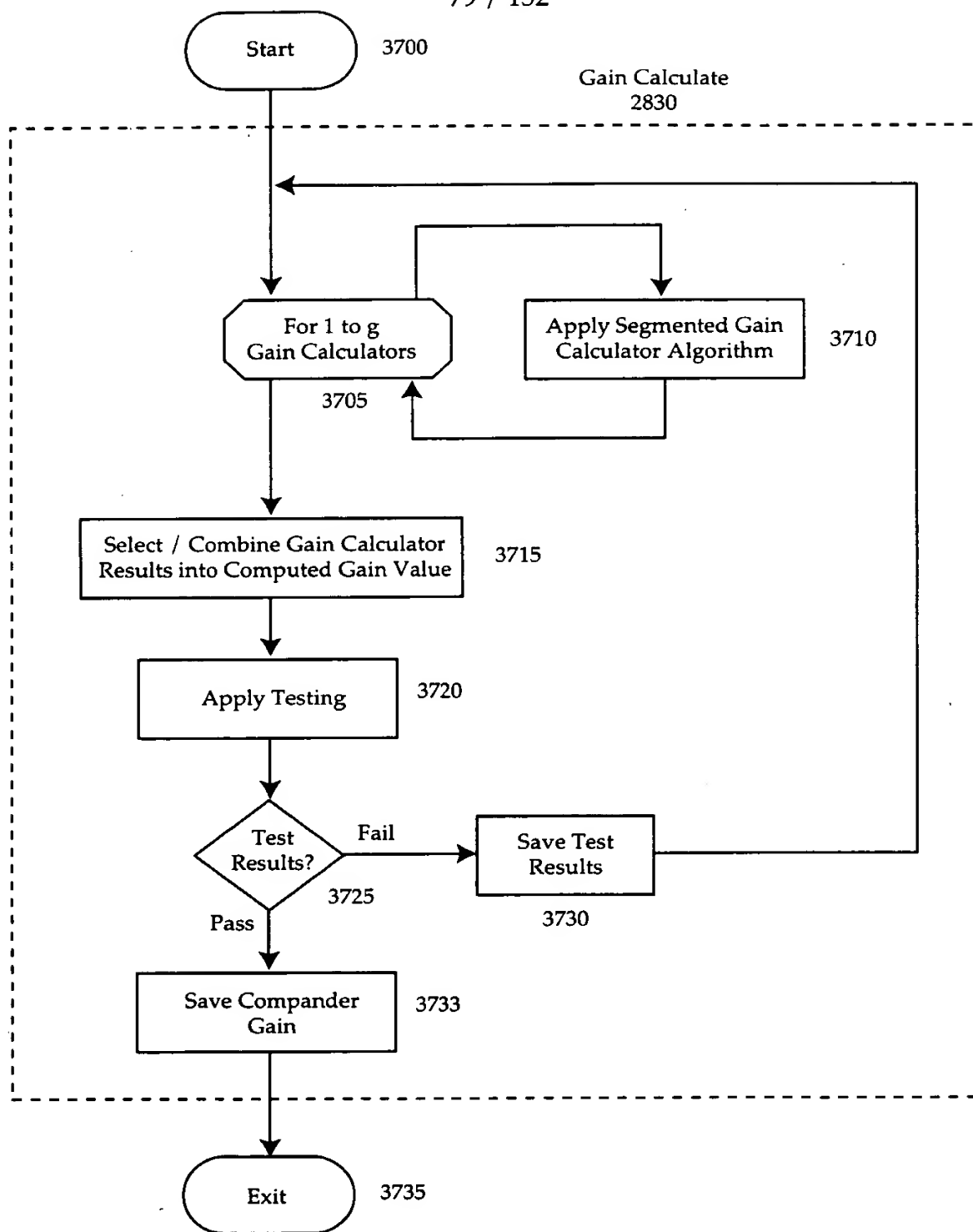


FIG. 37A

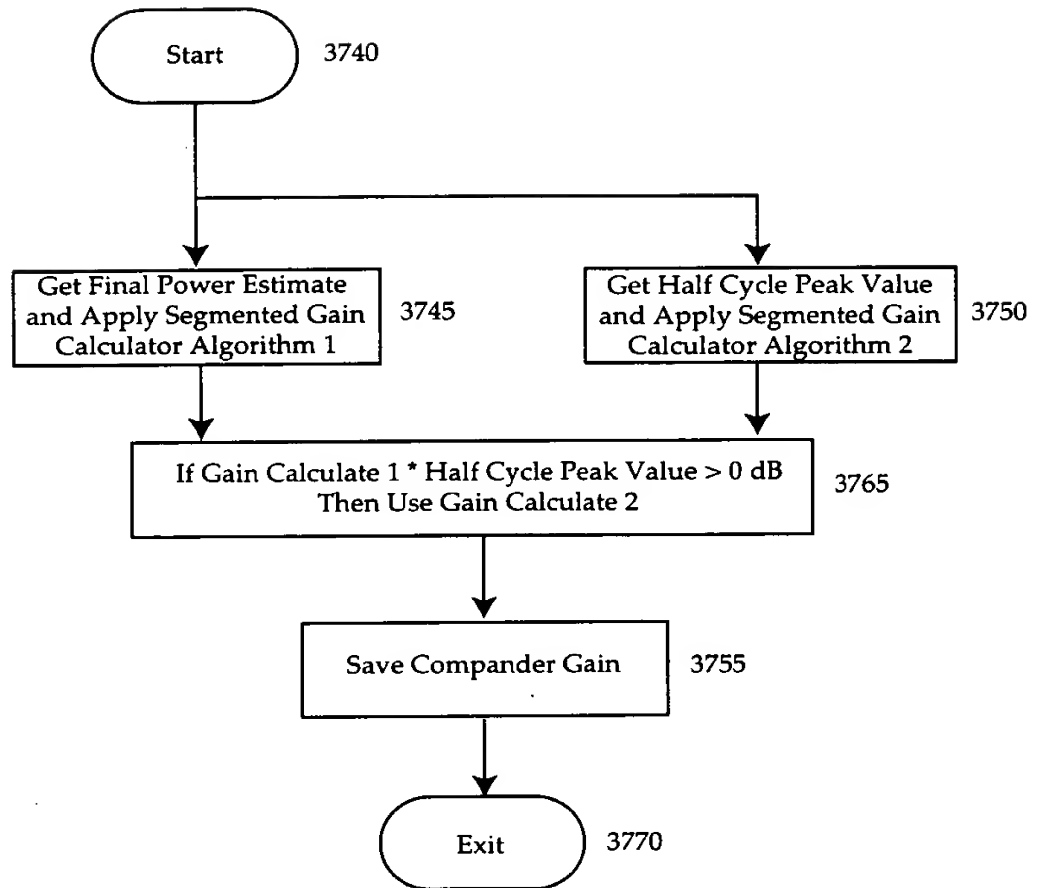


FIG. 37B

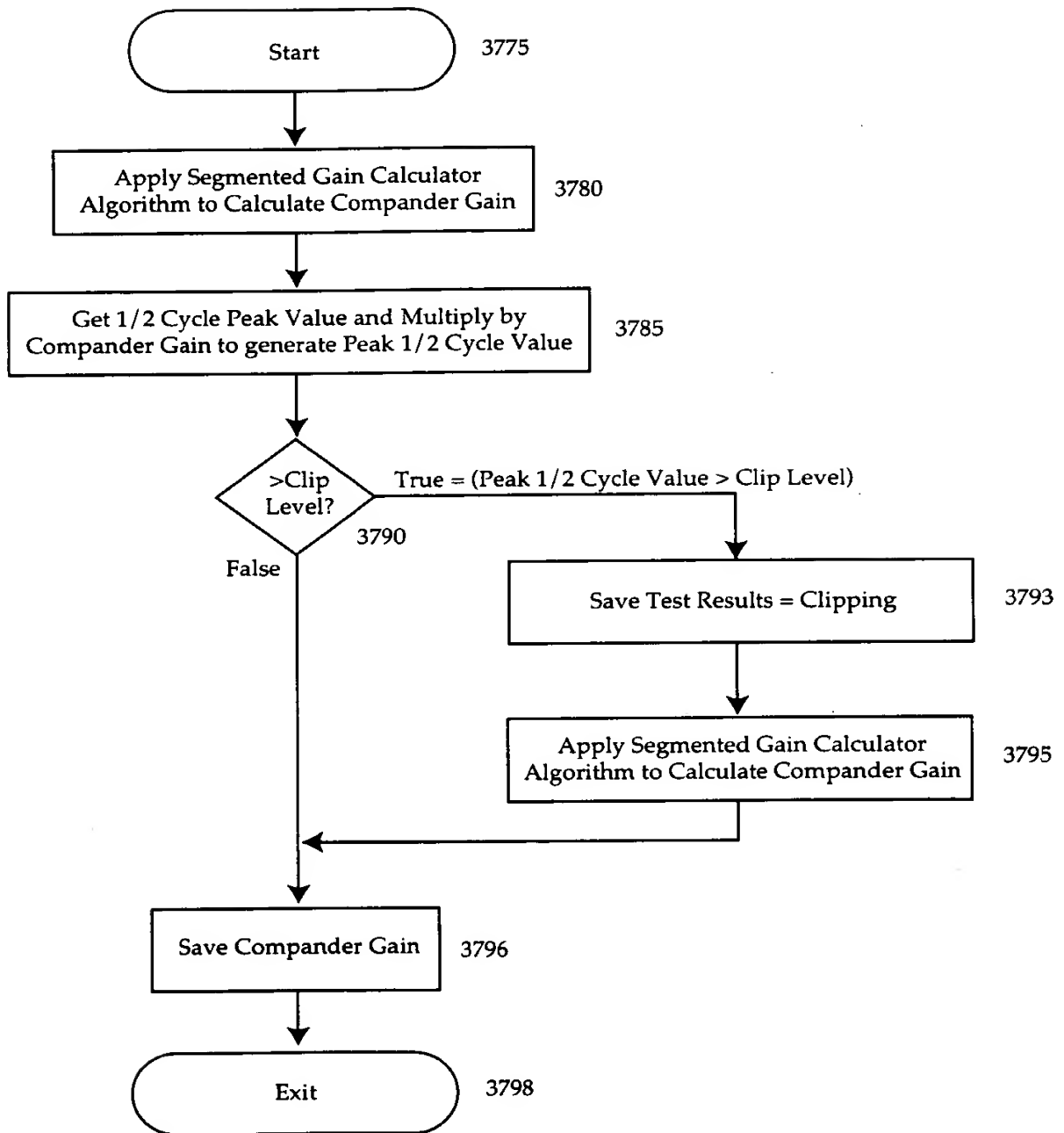


FIG. 37C

3800

Start

Segmented Gain Calculate Algorithm
3710, 3755, 3760, 3780, 3795

Get Gain Segment Input Variables (Final Power Estimate, Input Power, Peak Value, or Previous Segment and Gain Segment Variable Result

3805

Numeric
Conversion

3810

Get Test
Results

3815

Gain Segment Selector -
Determine the Segment that
Includes the Input and Test Results

3820

Get Gain Segment
Coefficients

3822

Gain Segment Coefficient and Variable Processor -
Produce Gain Transform Calculation Coefficients
and Variables Based on Determined Segment

3825

Last
Segment
Level?

False

3830

True

Gain Transform Calculation - Use Previous
Gain Segment Coefficient and Variable Processor
Results to Calculate a Gain Value

3835

Exit

3840

FIG. 38

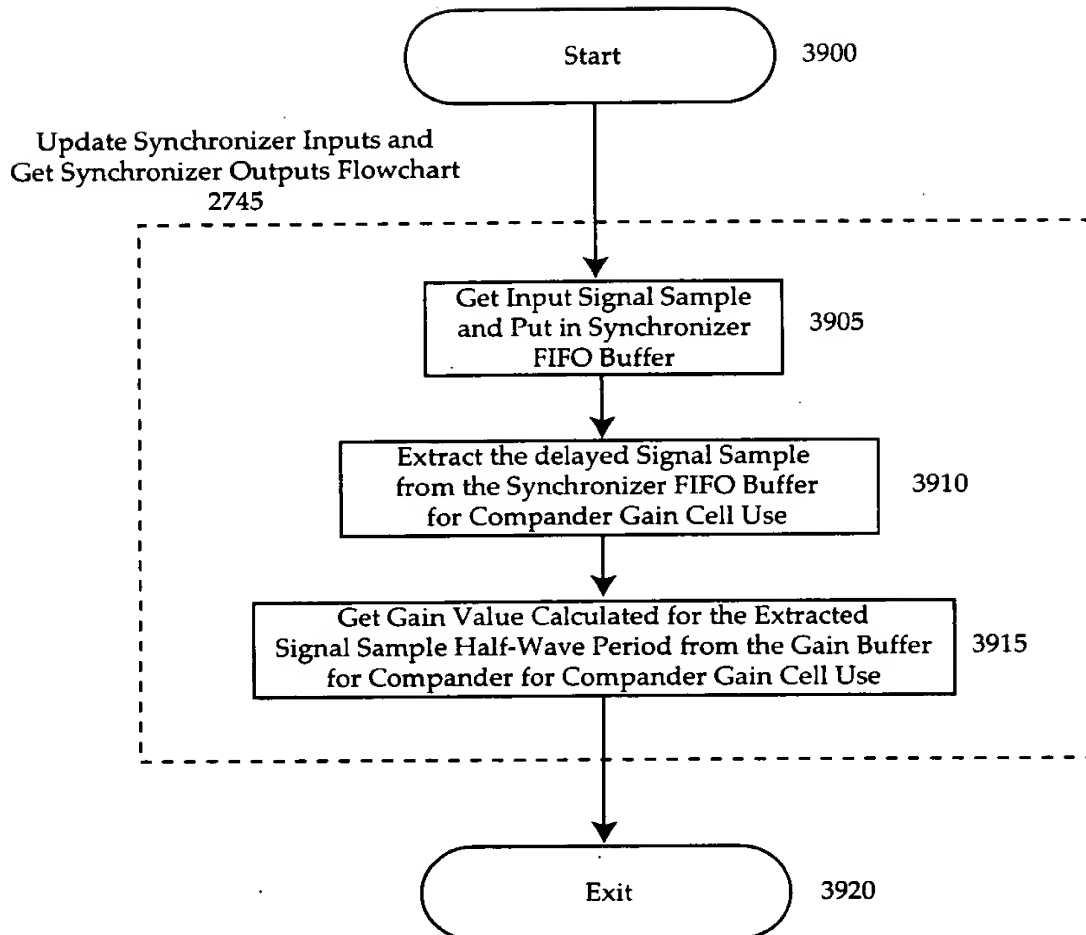


FIG. 39

006277 6927260

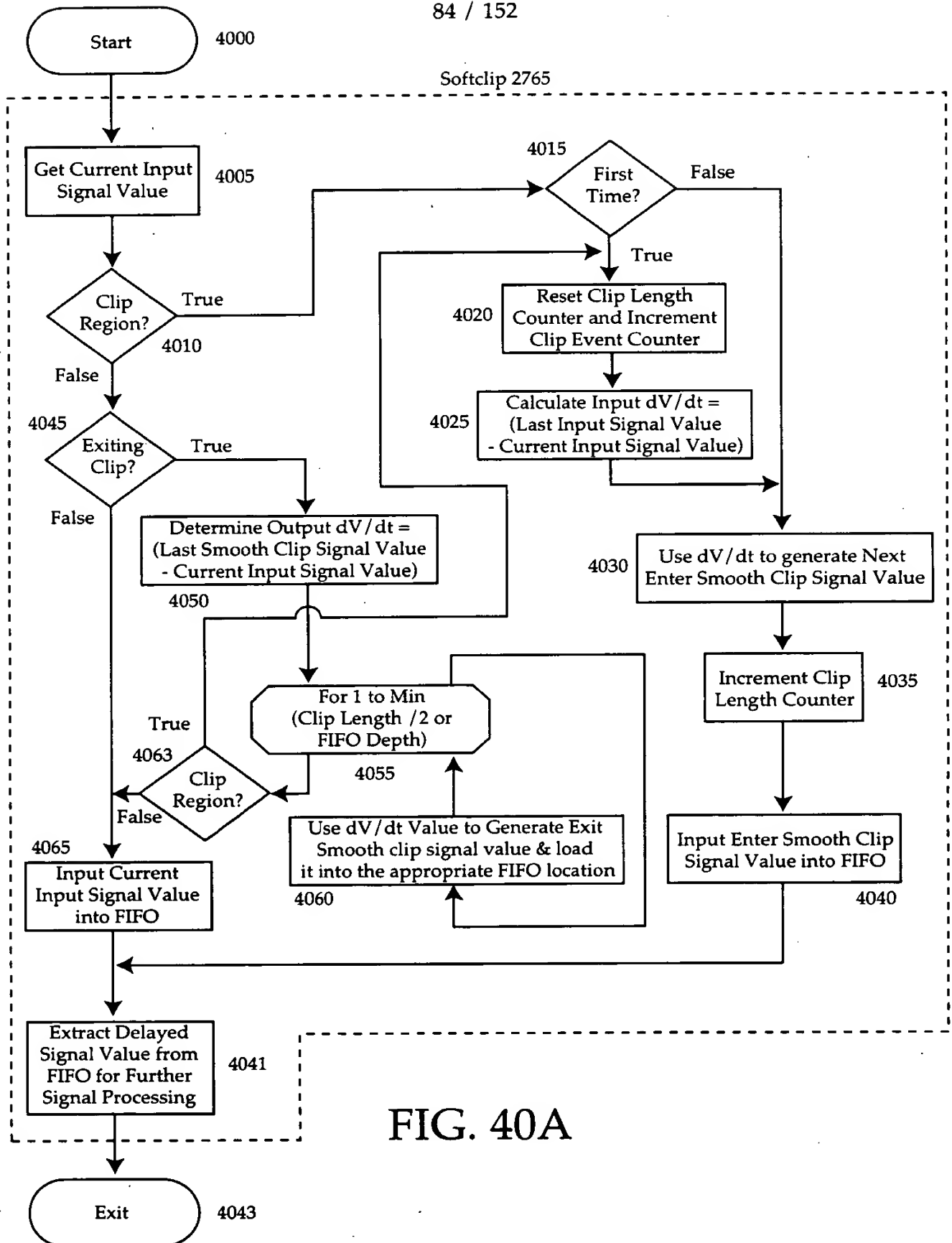


FIG. 40A

00627T" 692/2/60

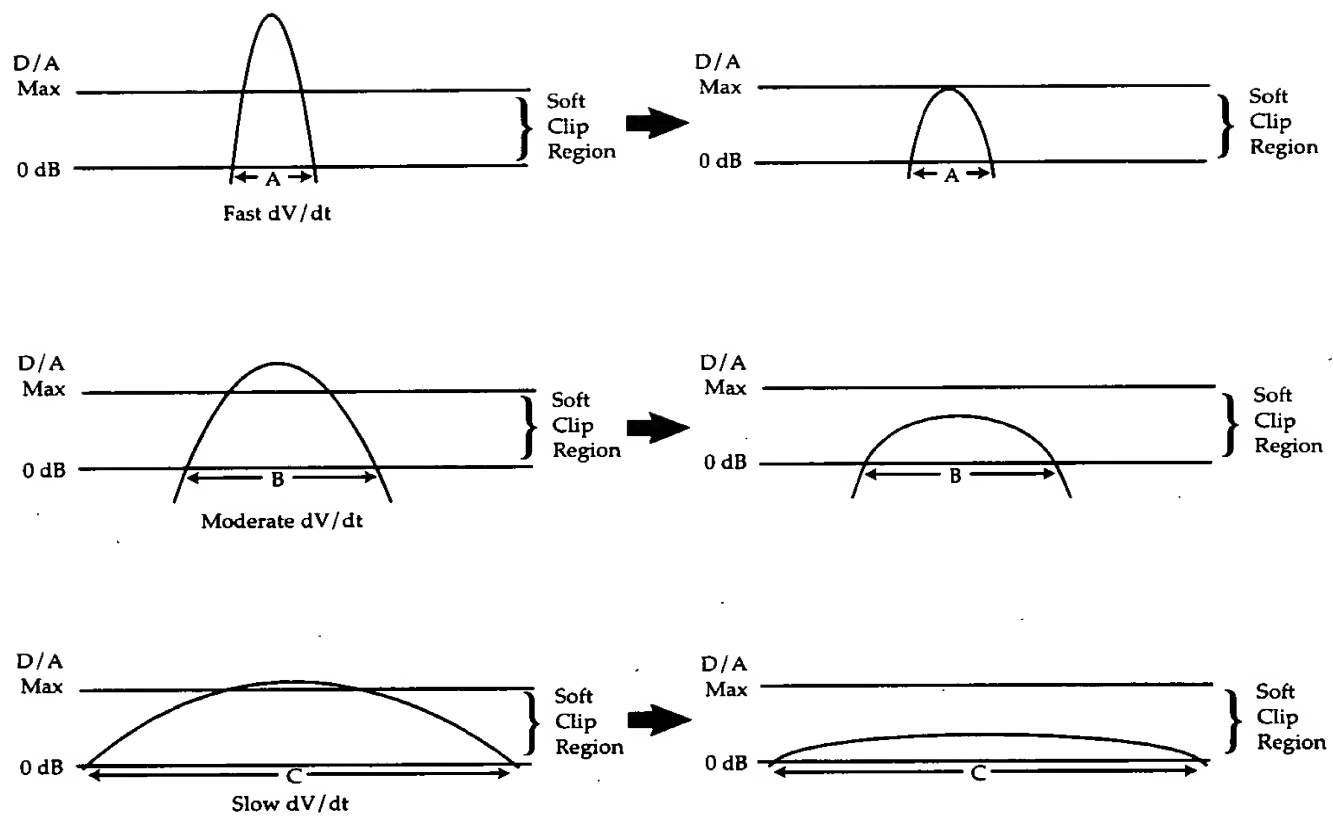


FIG. 40B

0062TT-6922260

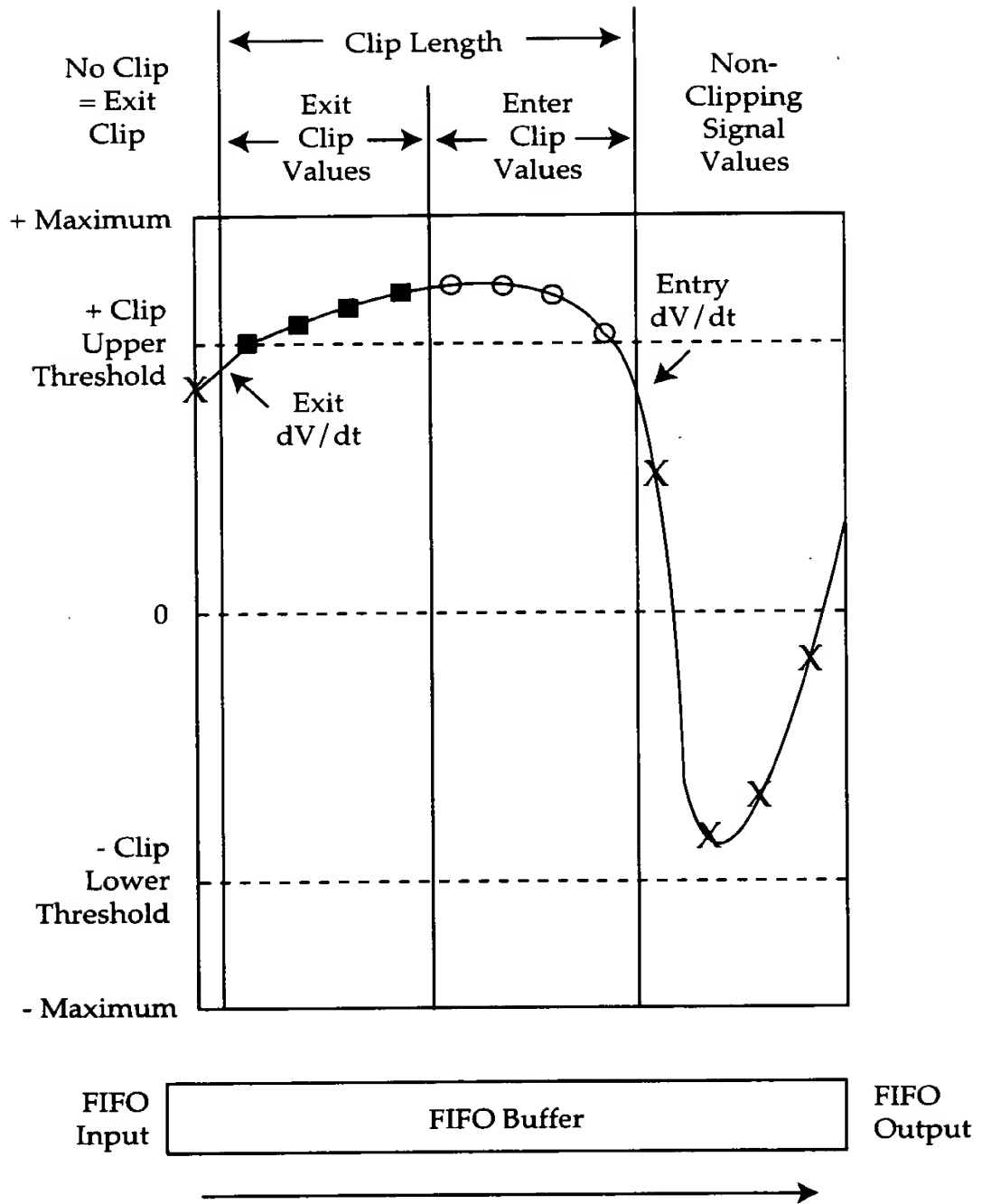


FIG. 40C

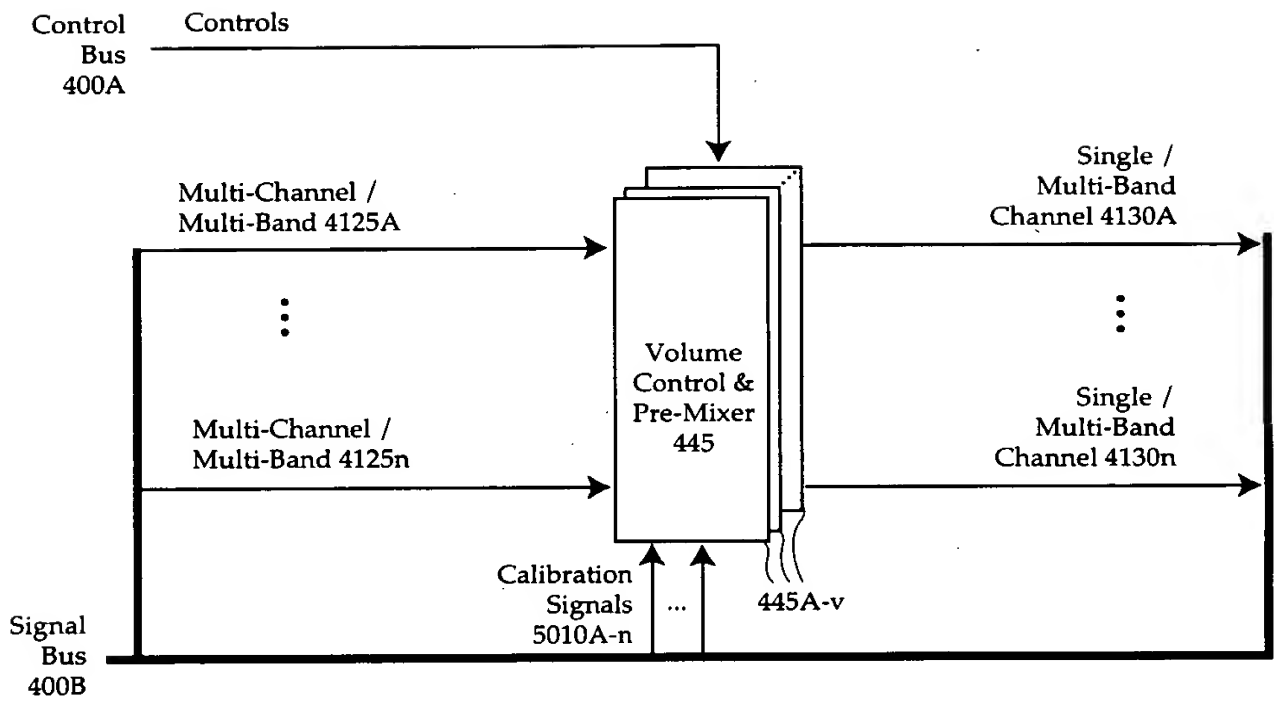


FIG. 41A

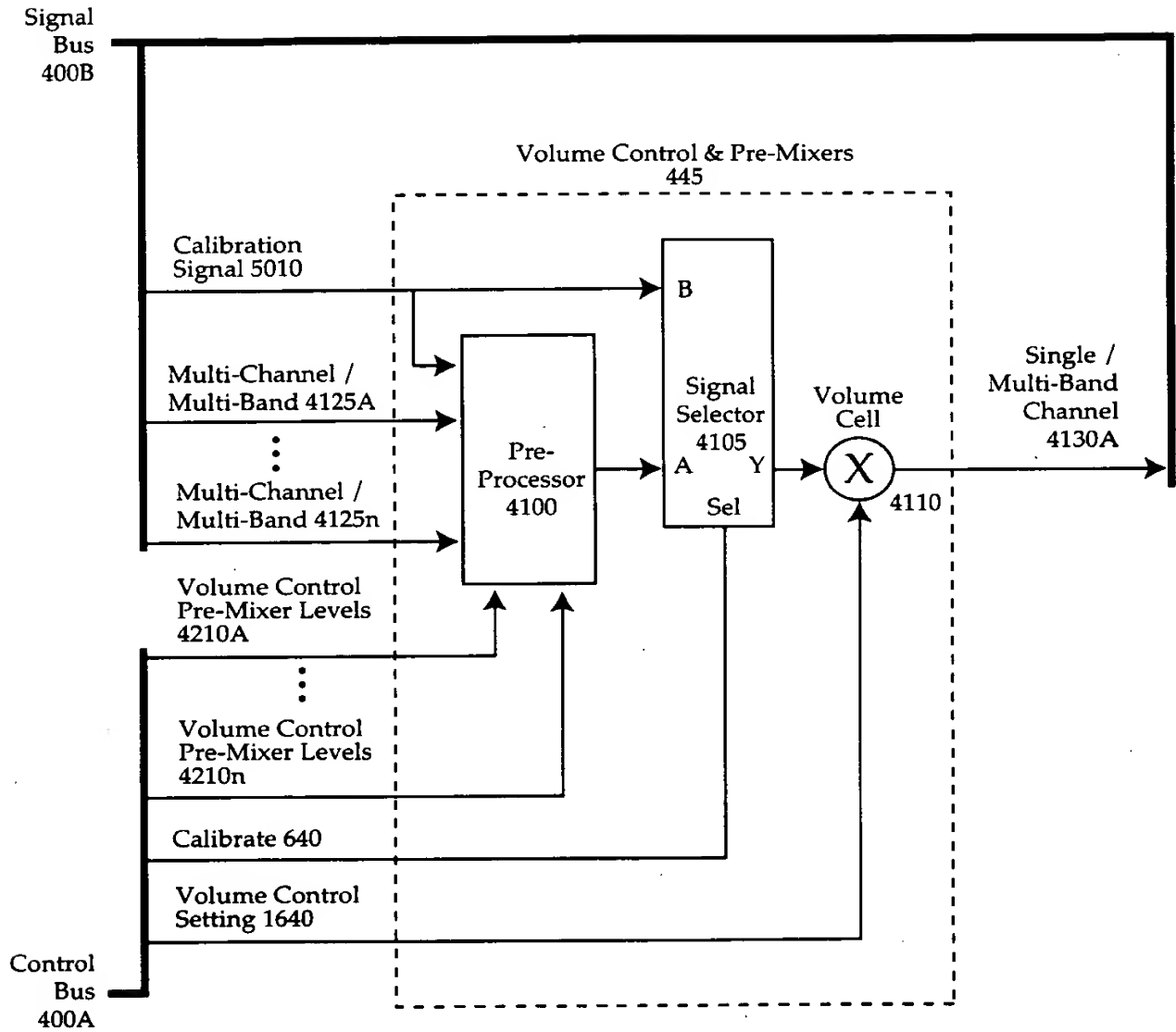


FIG. 41B

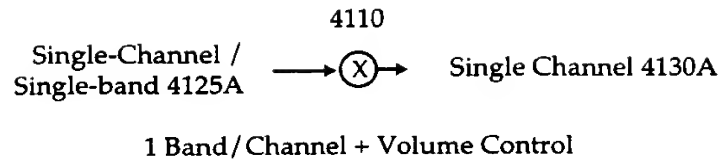


FIG. 42A

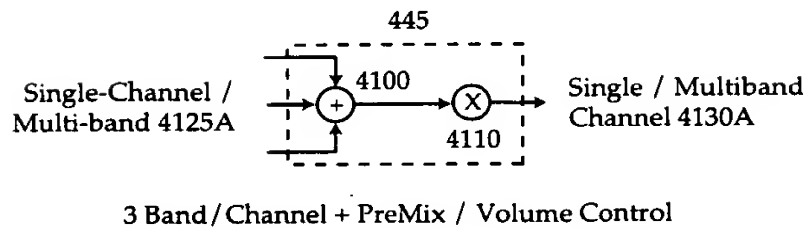
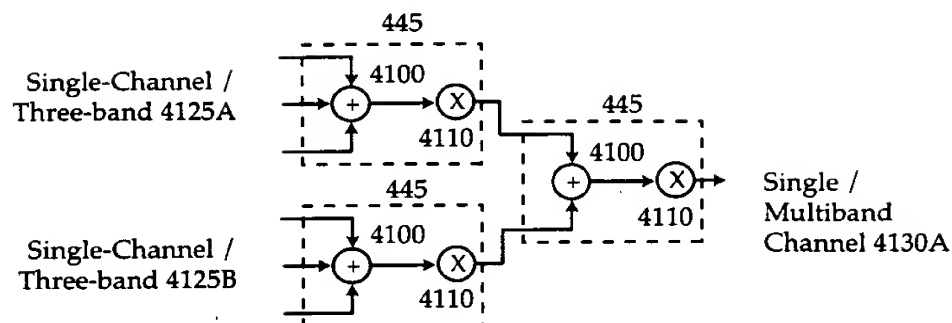


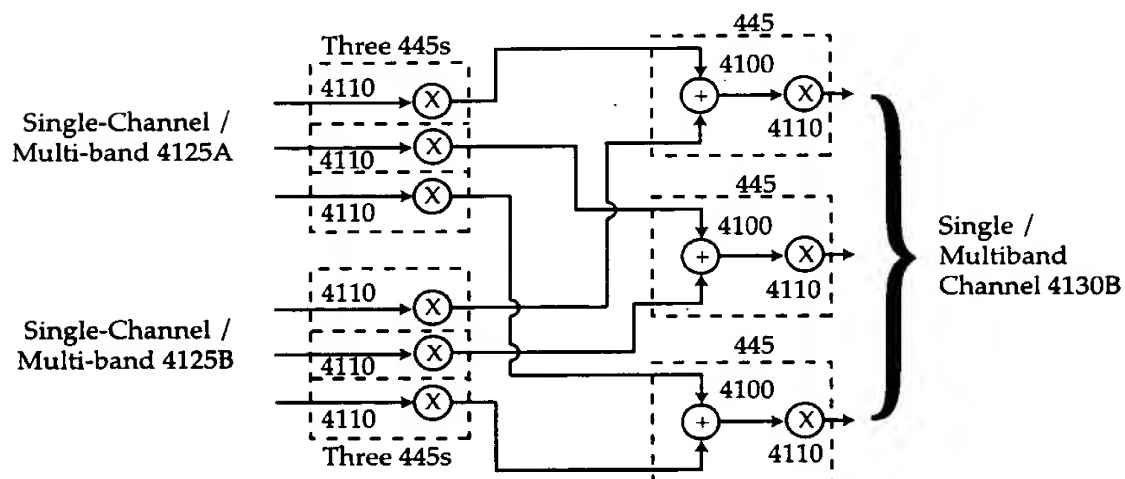
FIG. 42B

09727269-112900



3 Band/Channel + Pre-Mix / Volume Control > Premix Volume Control
 3 Band/Channel + Pre-Mix / Volume Control

FIG. 42C



3 Band/Channel + 3 Volume Control > 3 Premix Volume Control
 3 Band/Channel + 3 Volume Control

FIG. 42D

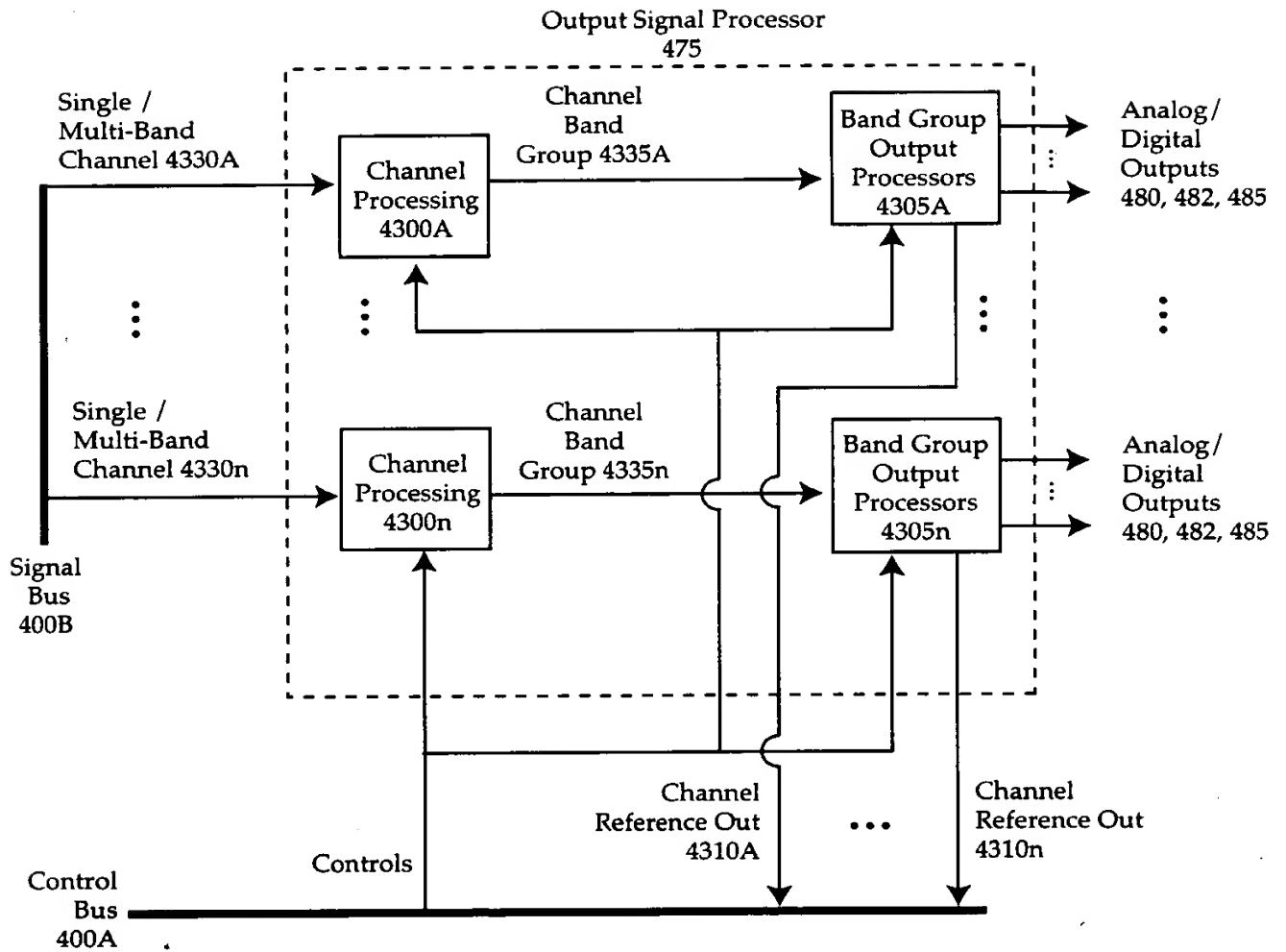


FIG. 43A

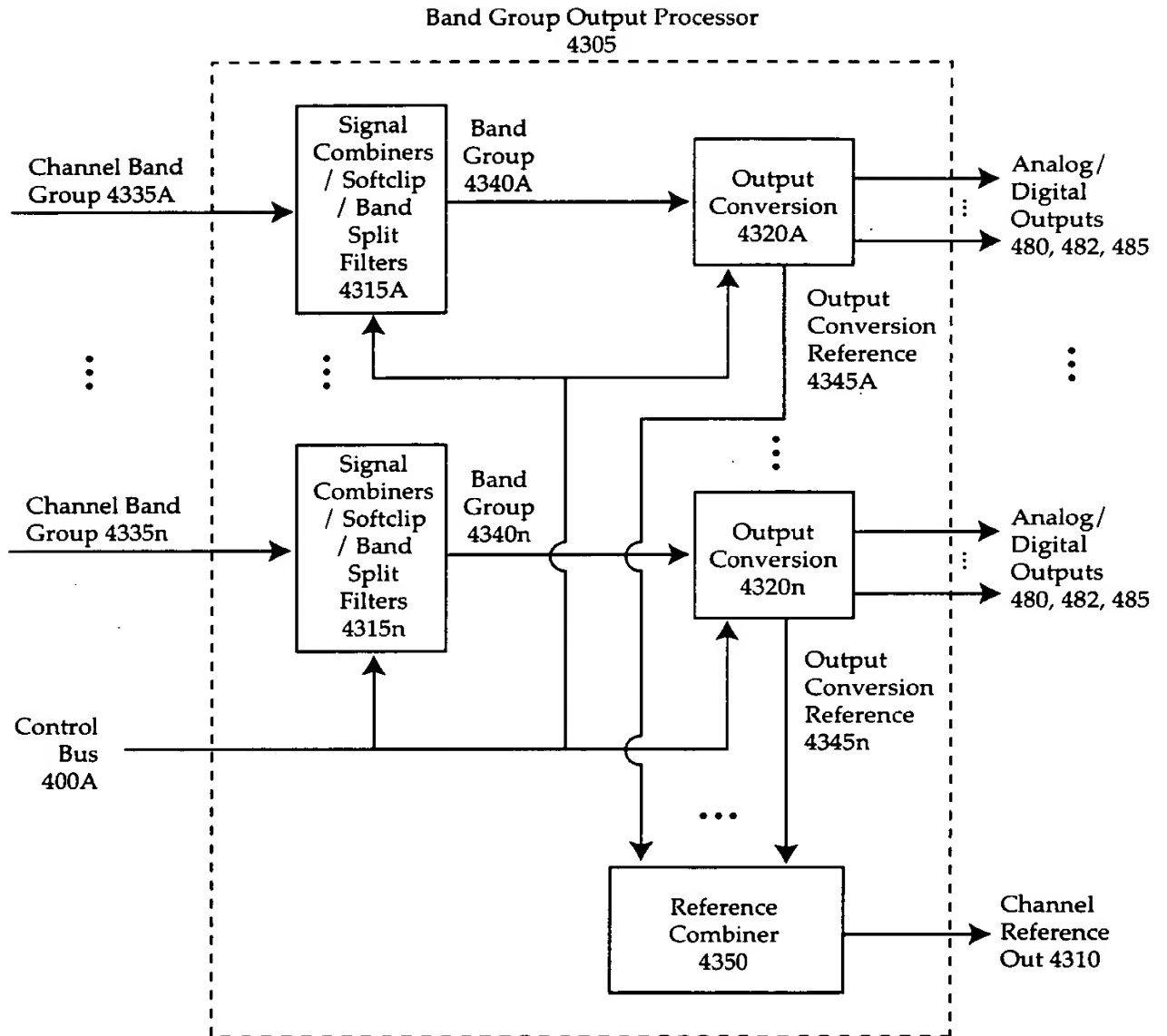


FIG. 43B

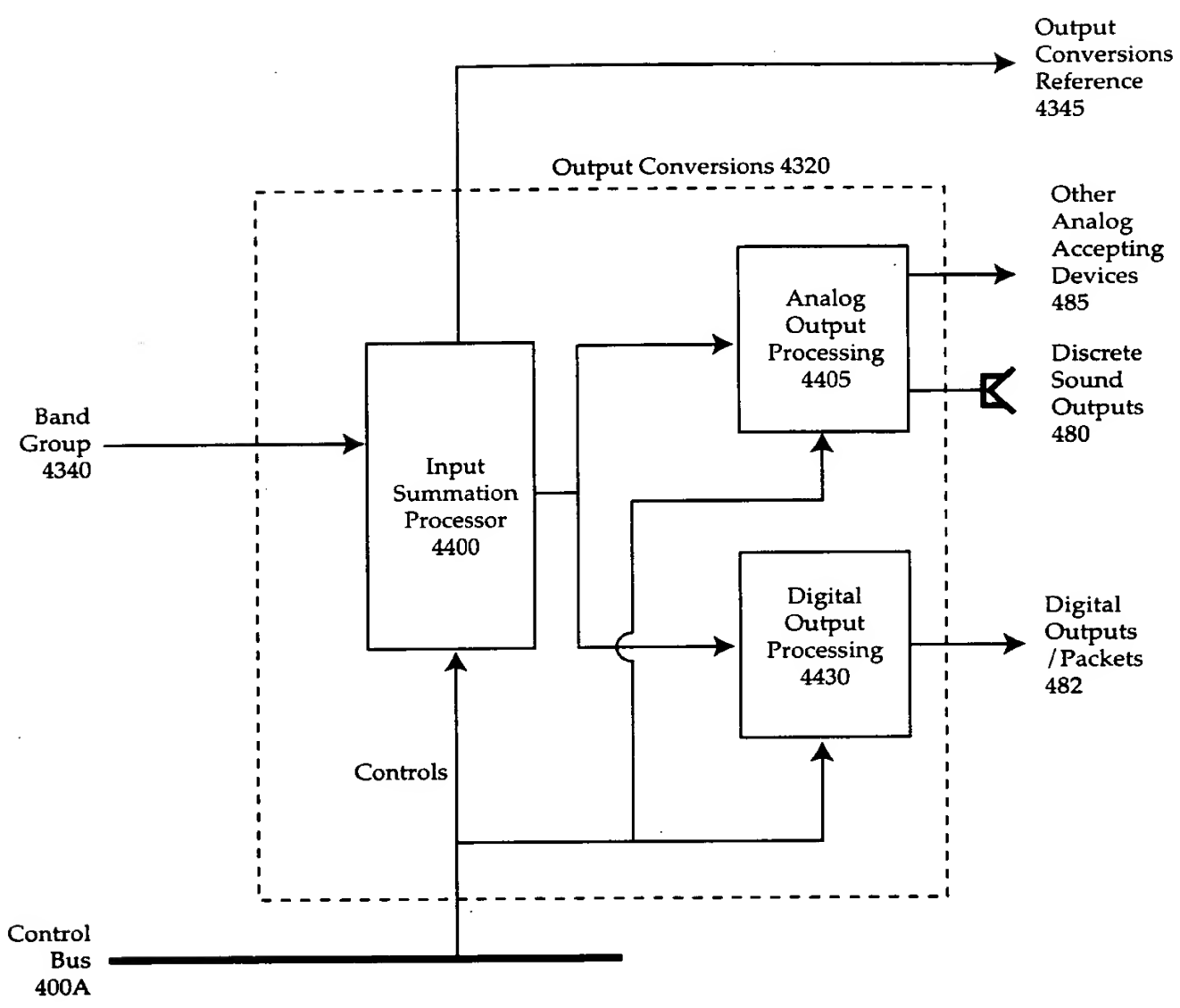


FIG. 44

006277 6922260

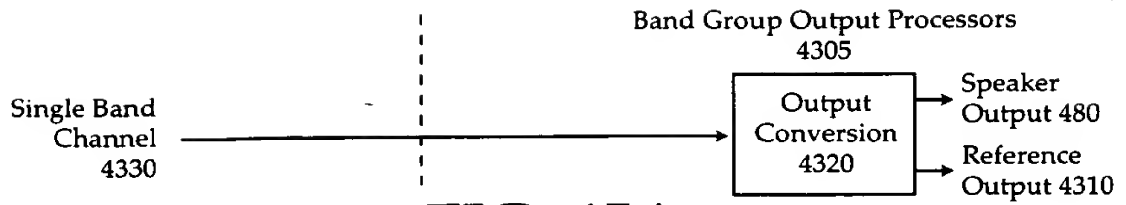


FIG. 45A

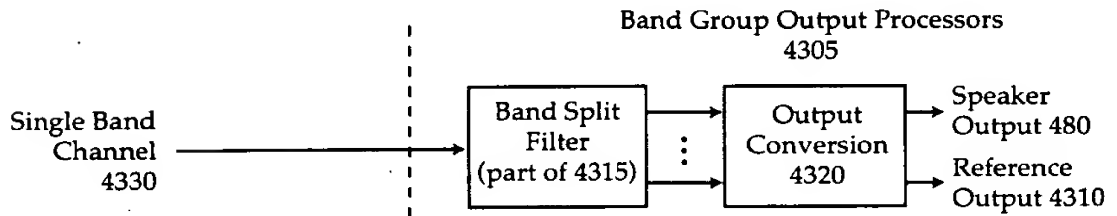


FIG. 45B

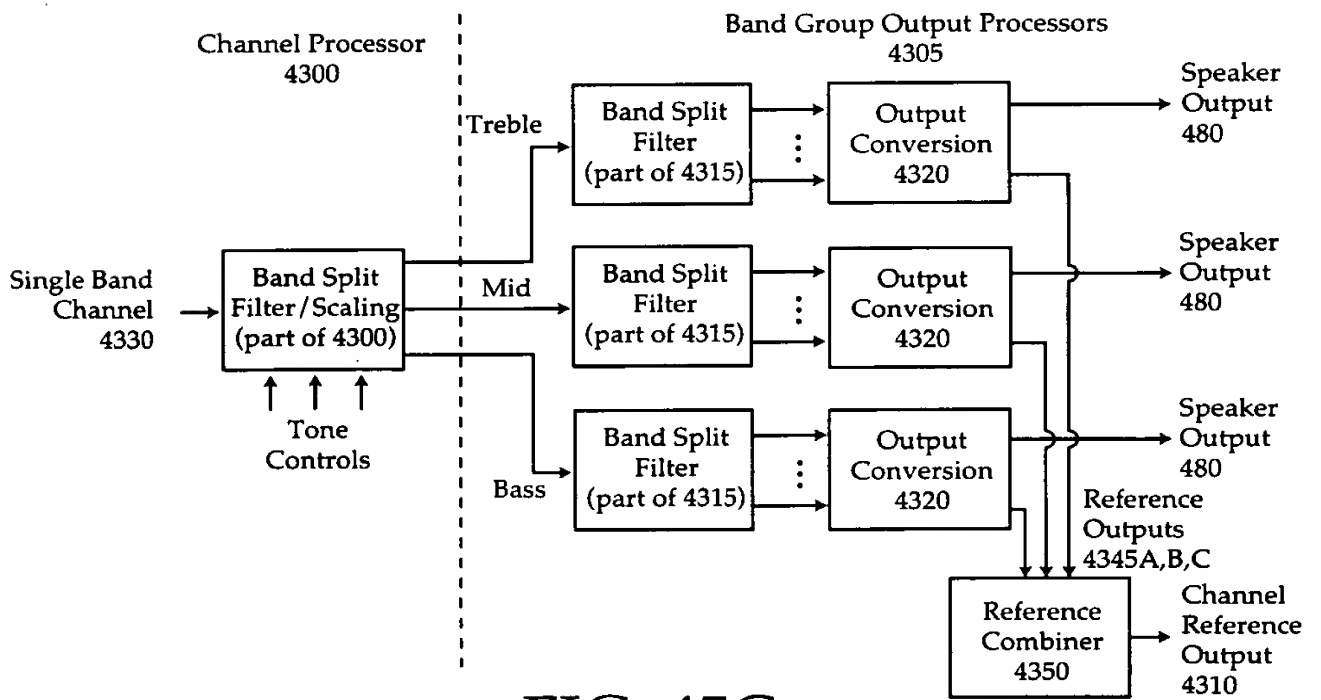


FIG. 45C

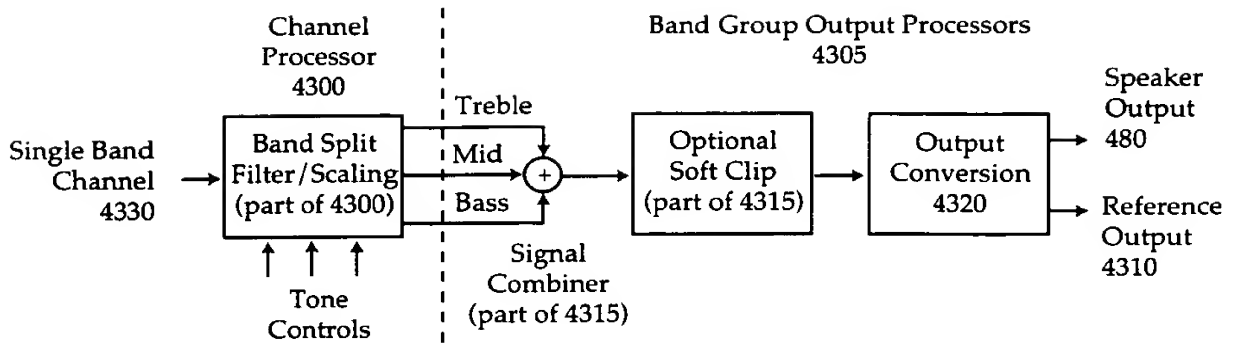


FIG. 45D

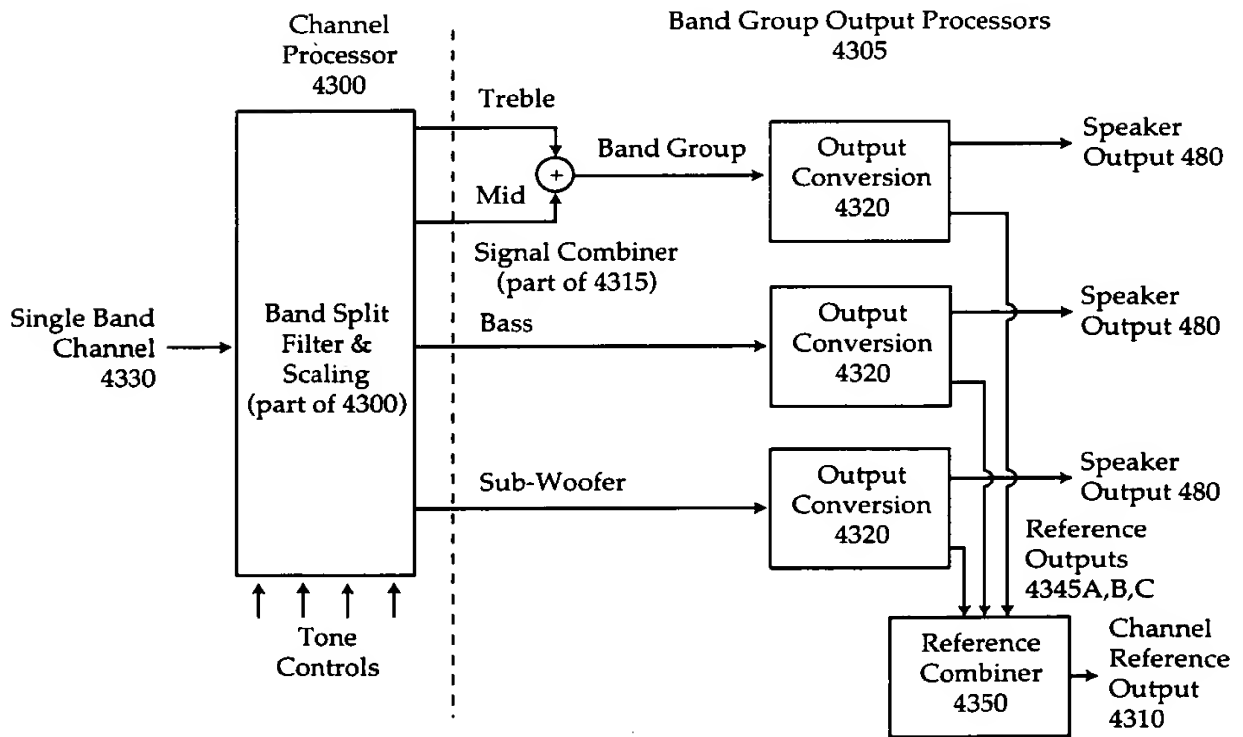


FIG. 45E

006211-6922260

09727269 112900

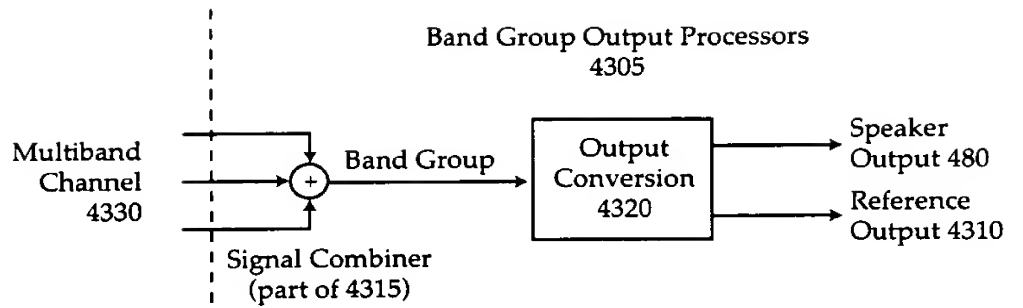


FIG. 45F

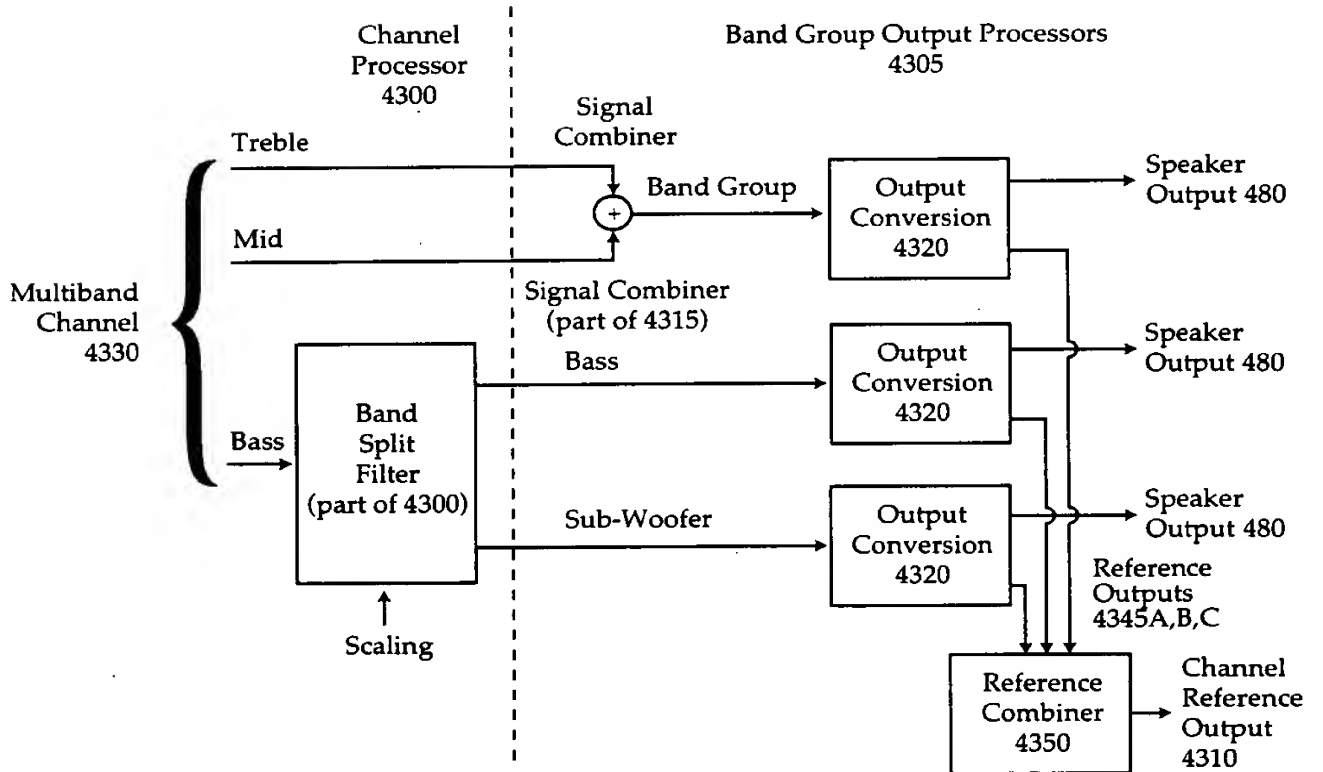


FIG. 45G

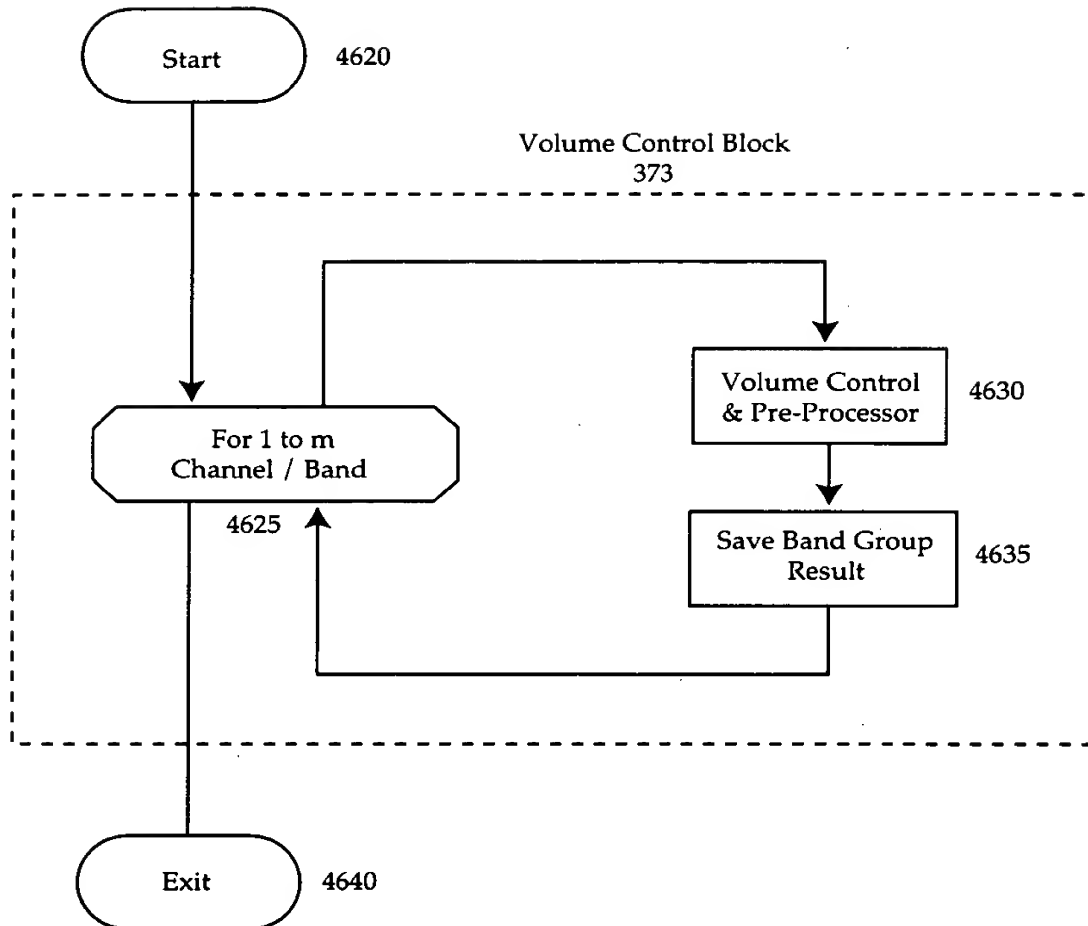


FIG. 46

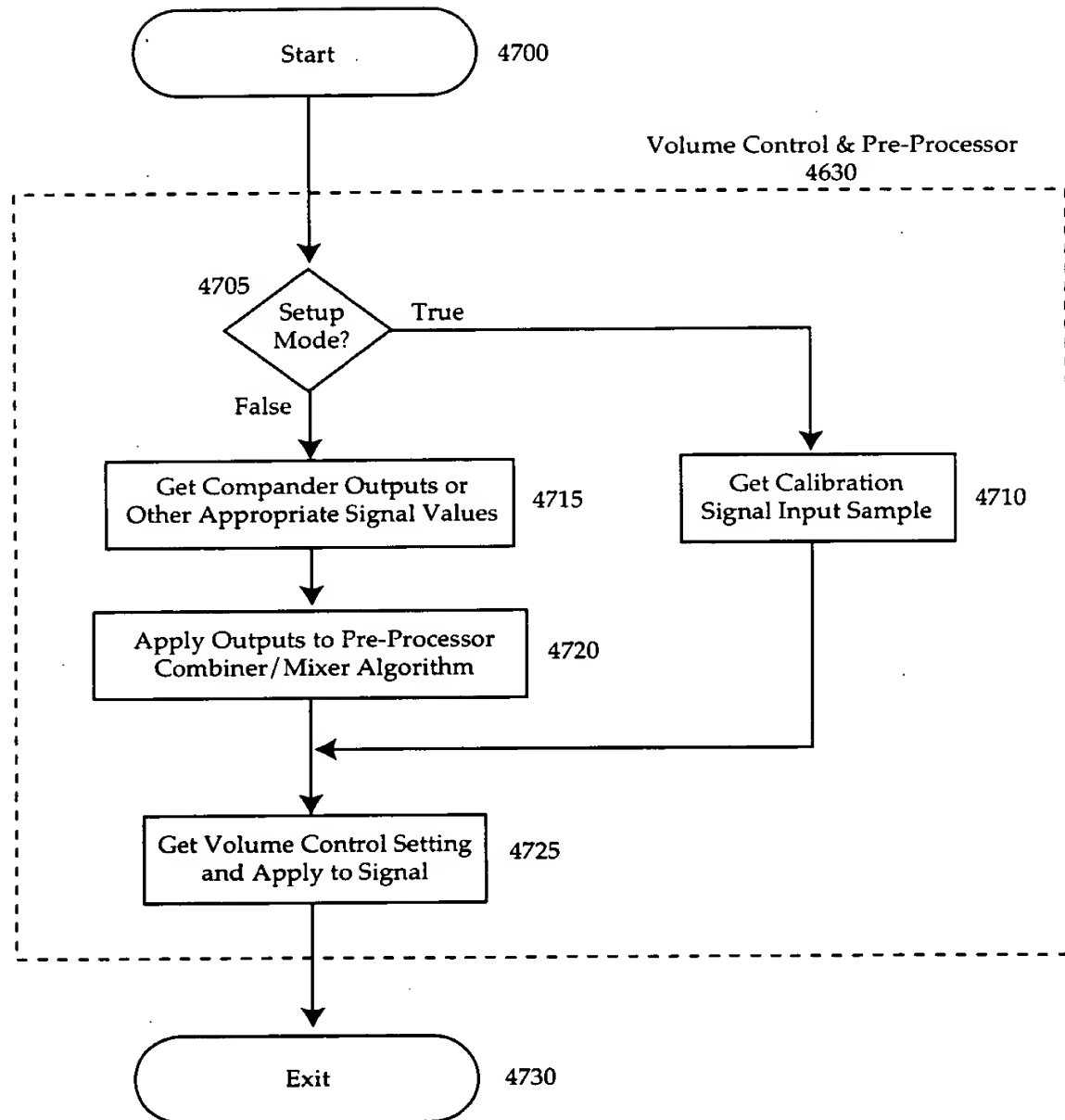


FIG. 47

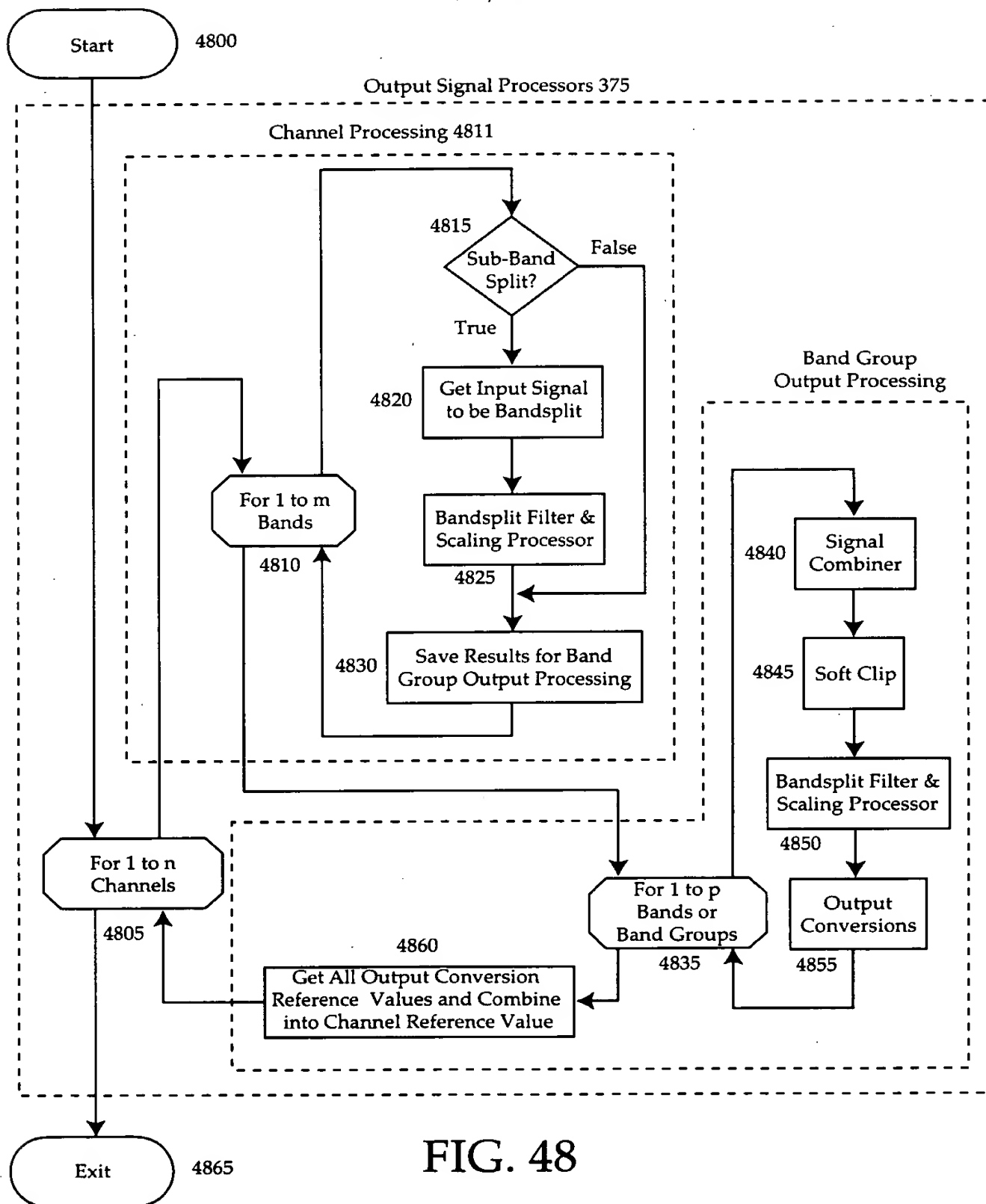


FIG. 48

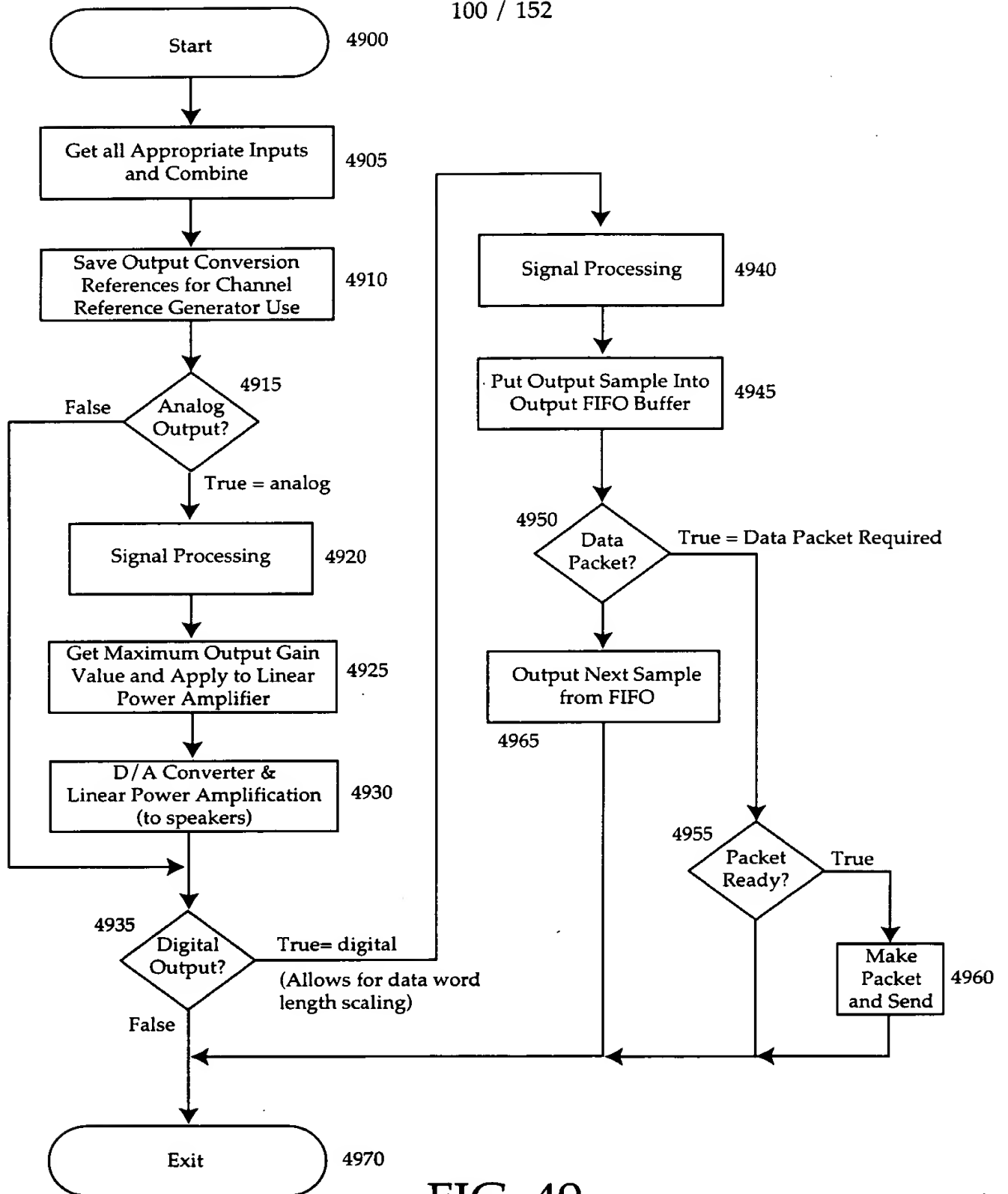


FIG. 49

006211 6922260

Calibrator / Annunciator 420

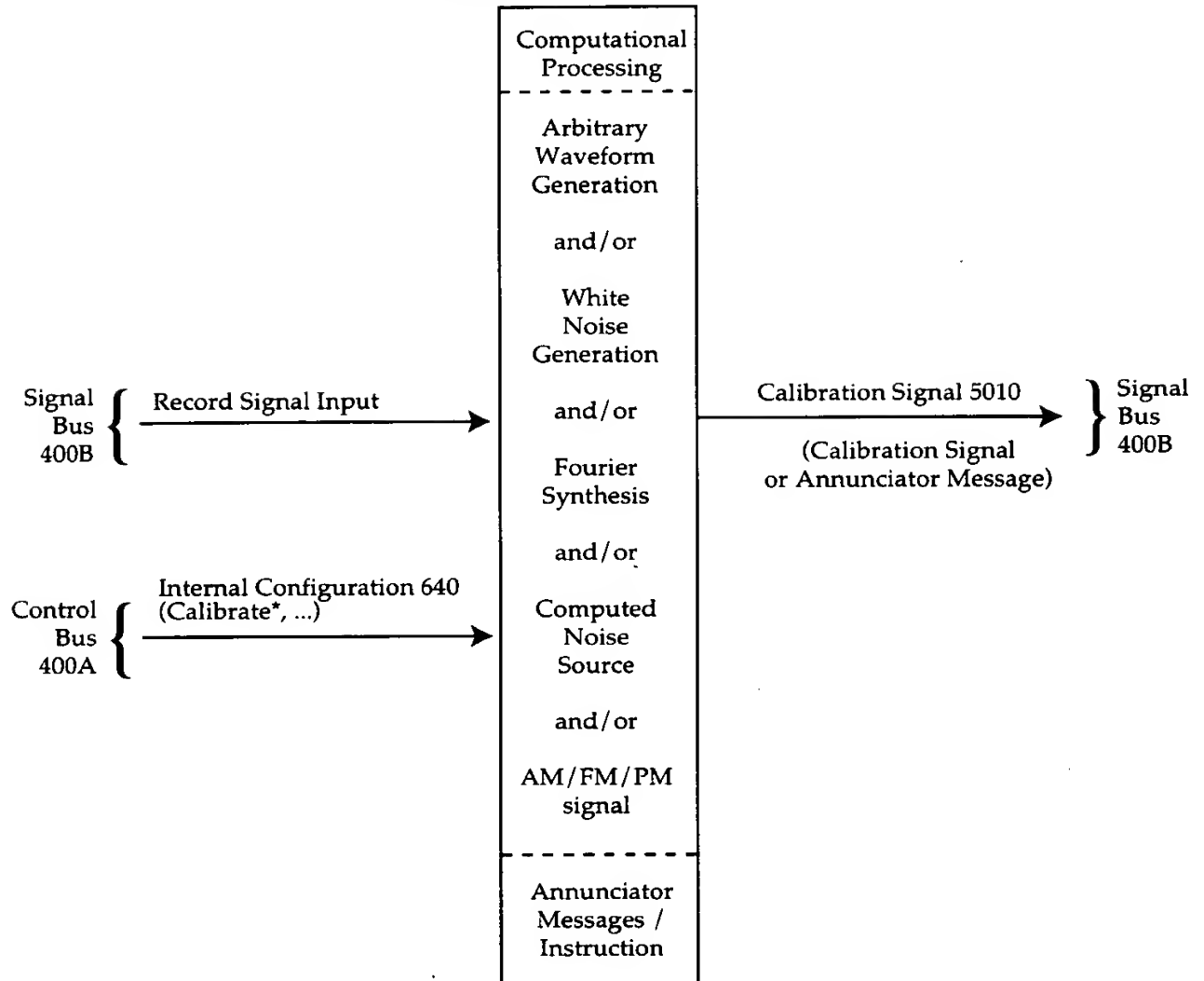


FIG. 50

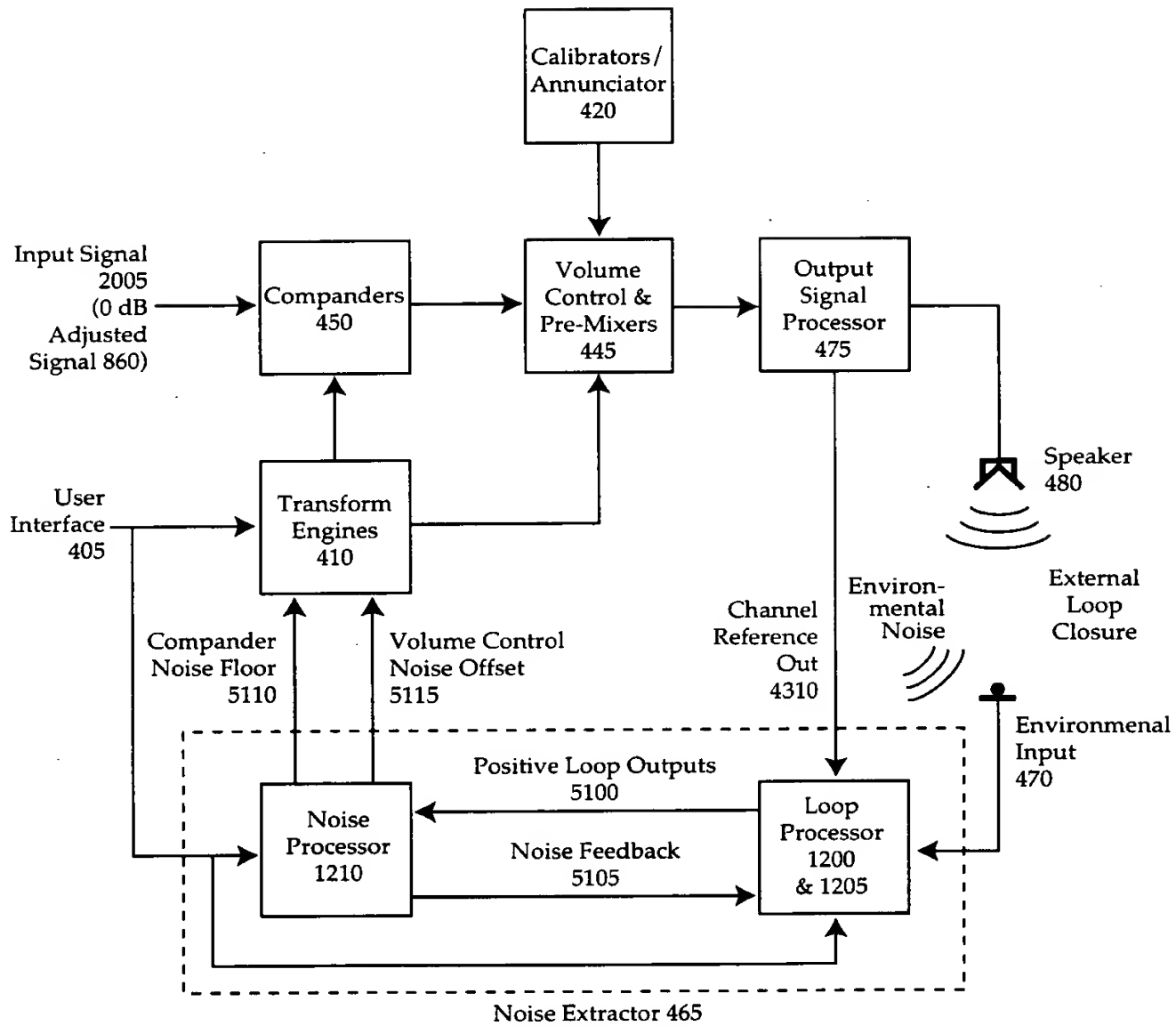


FIG. 51

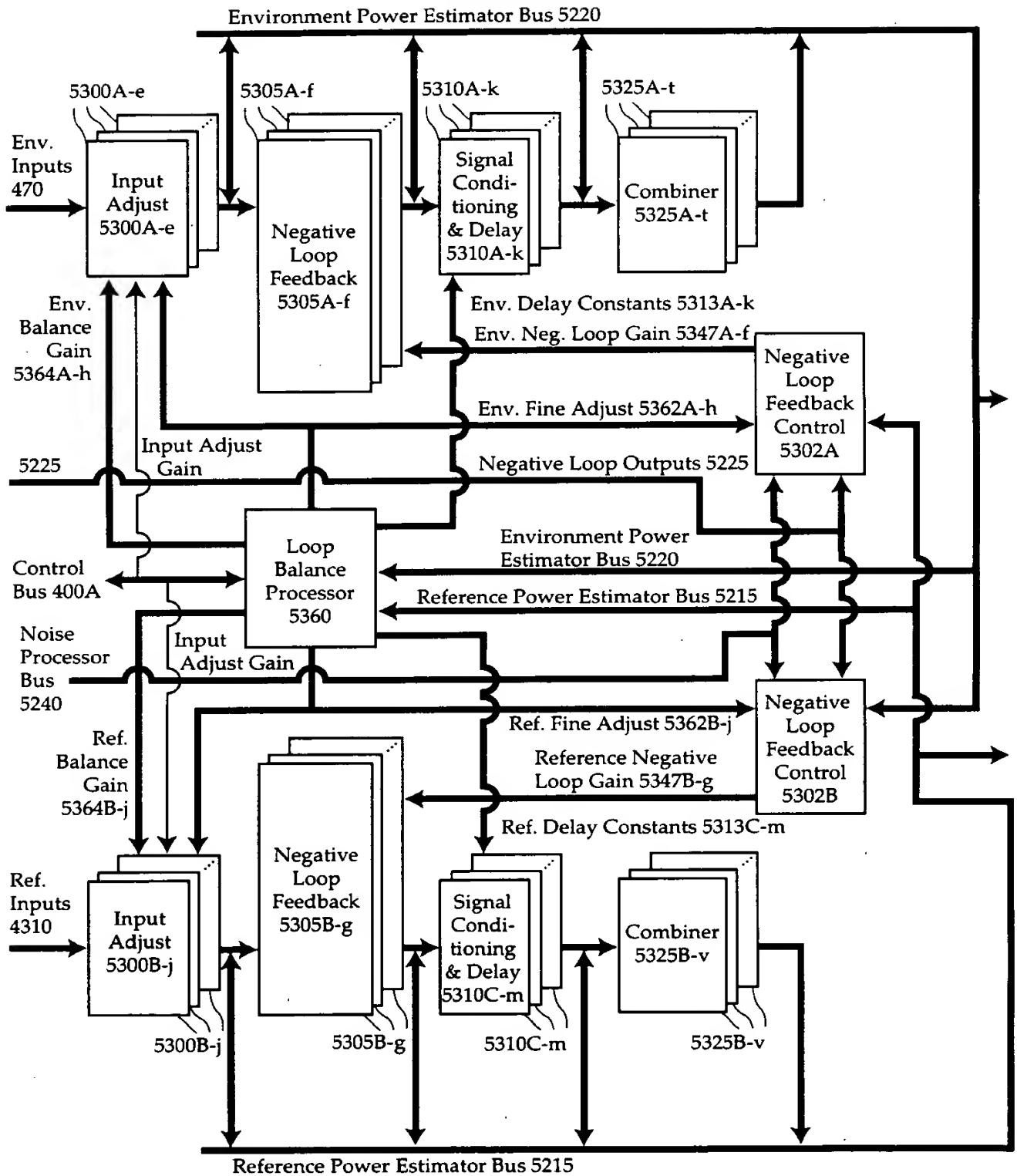


FIG. 52A

00627T-6922260

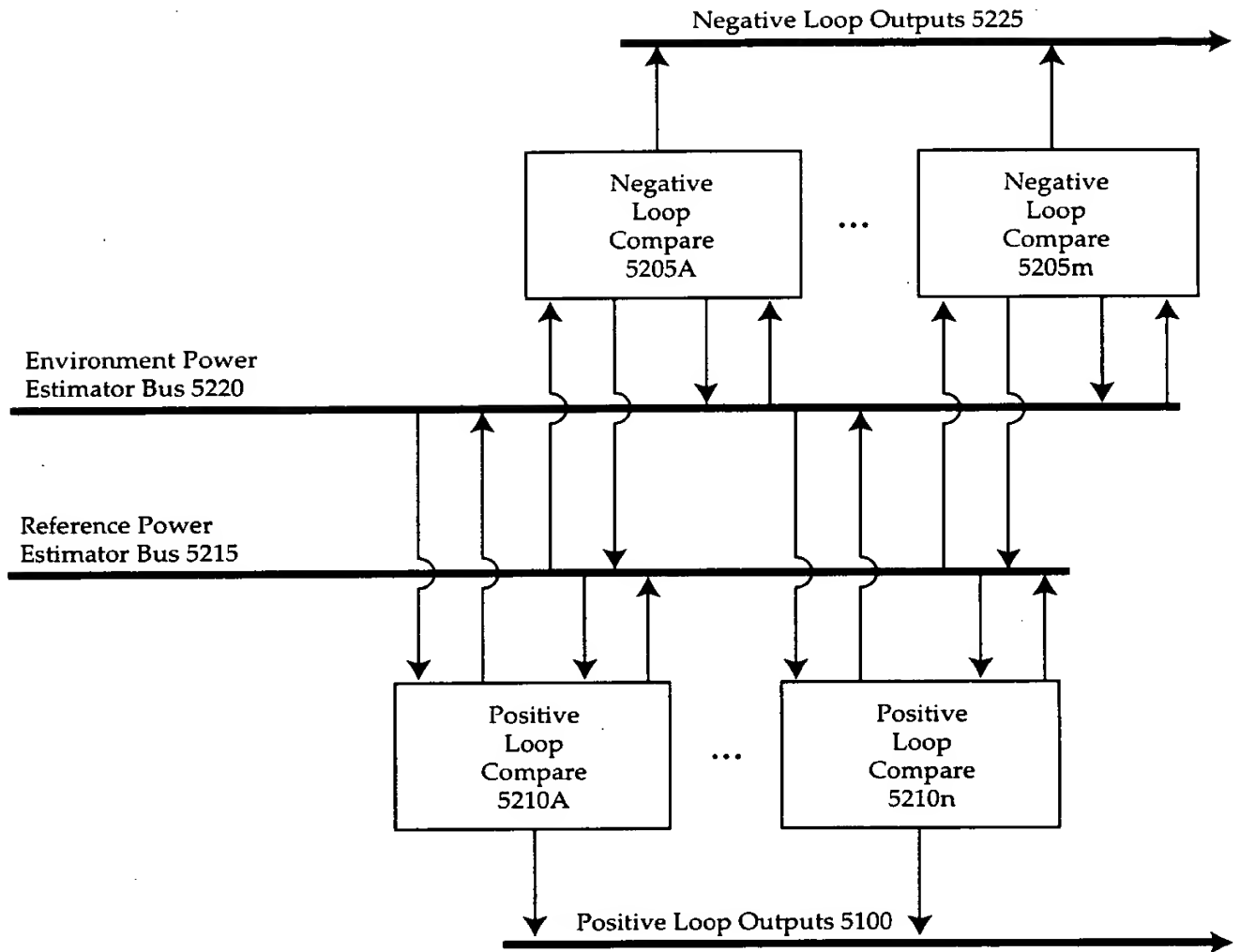


FIG. 52B

006211 692260

105 / 152

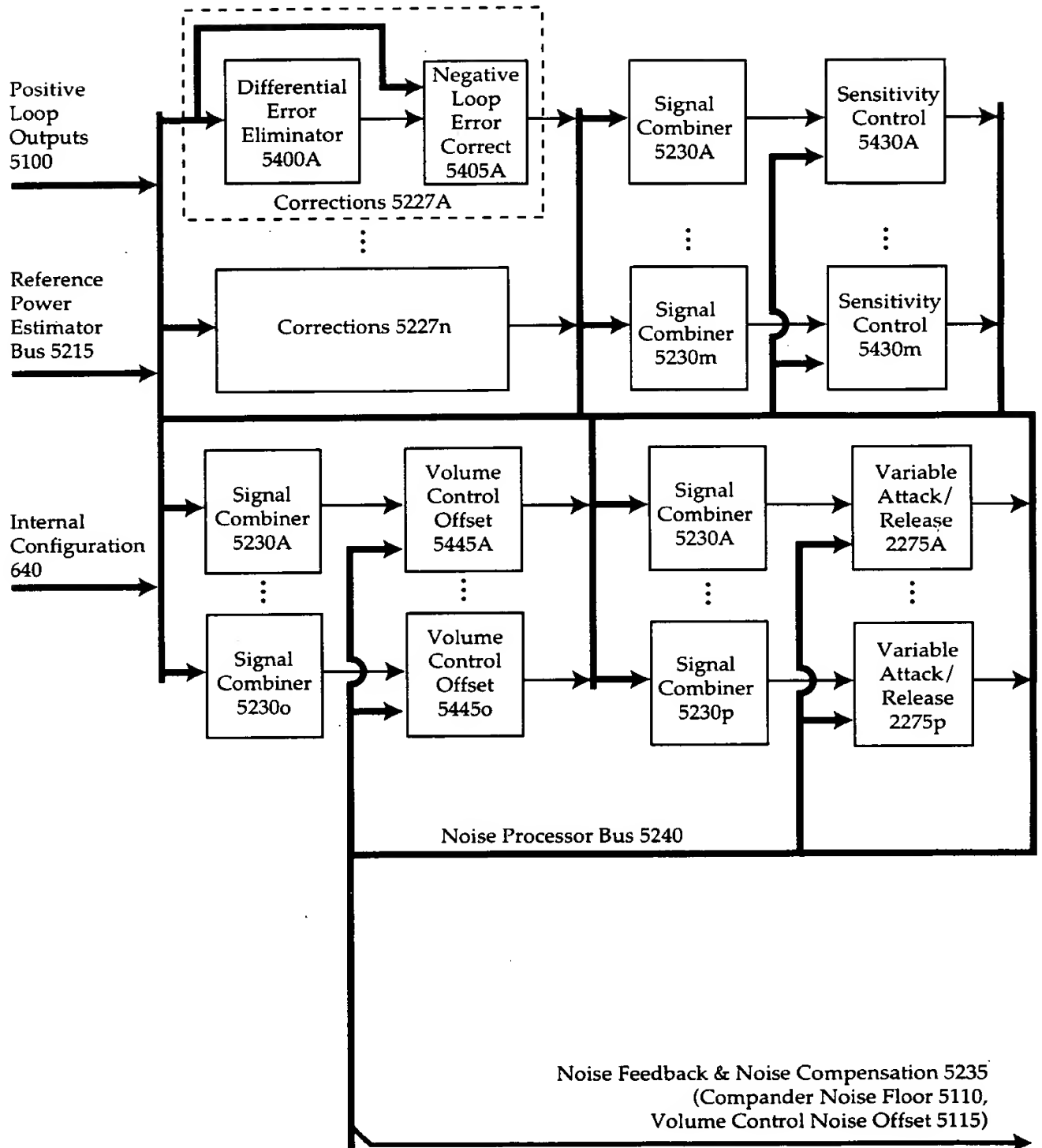


FIG. 52C

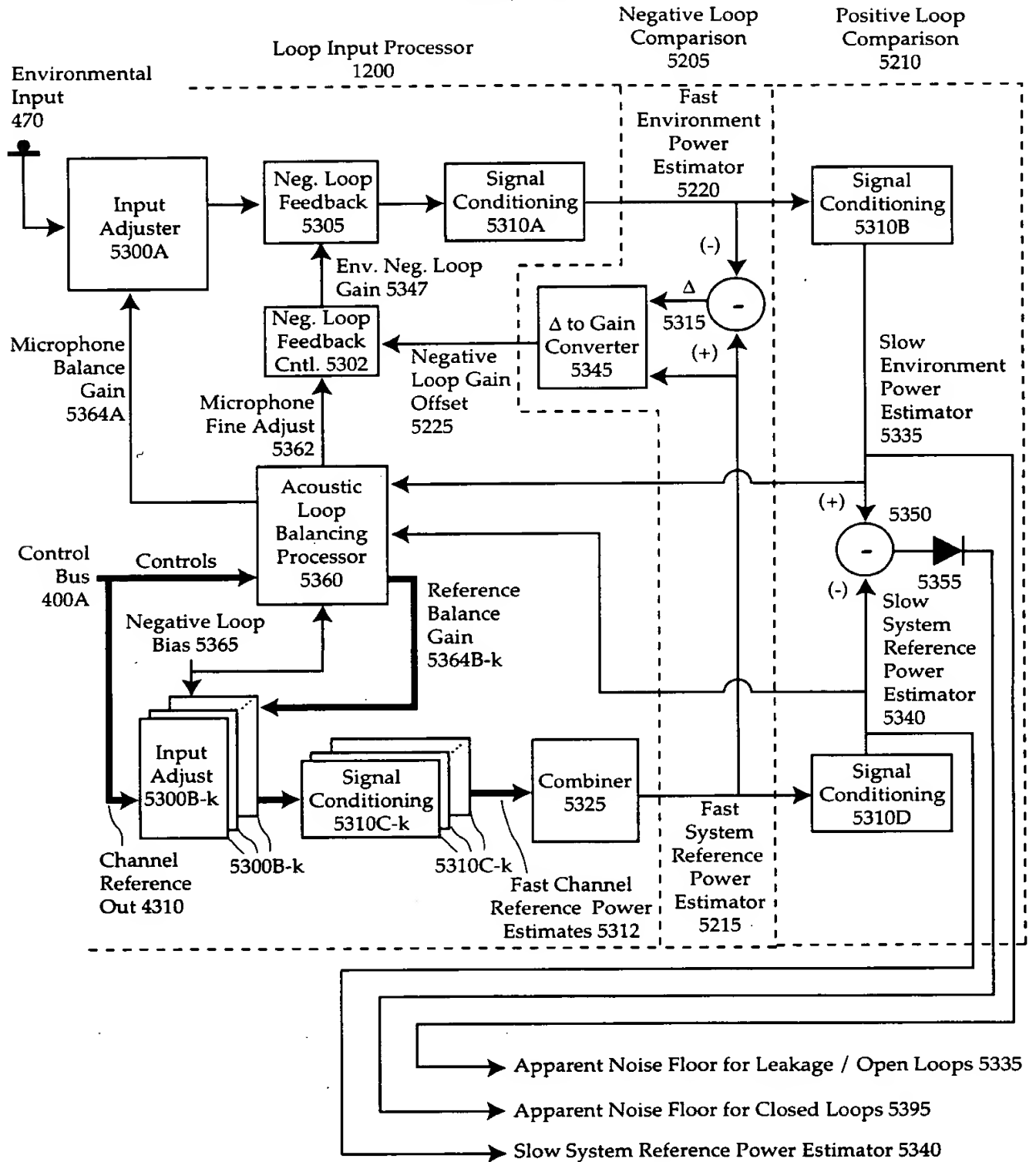


FIG. 53A

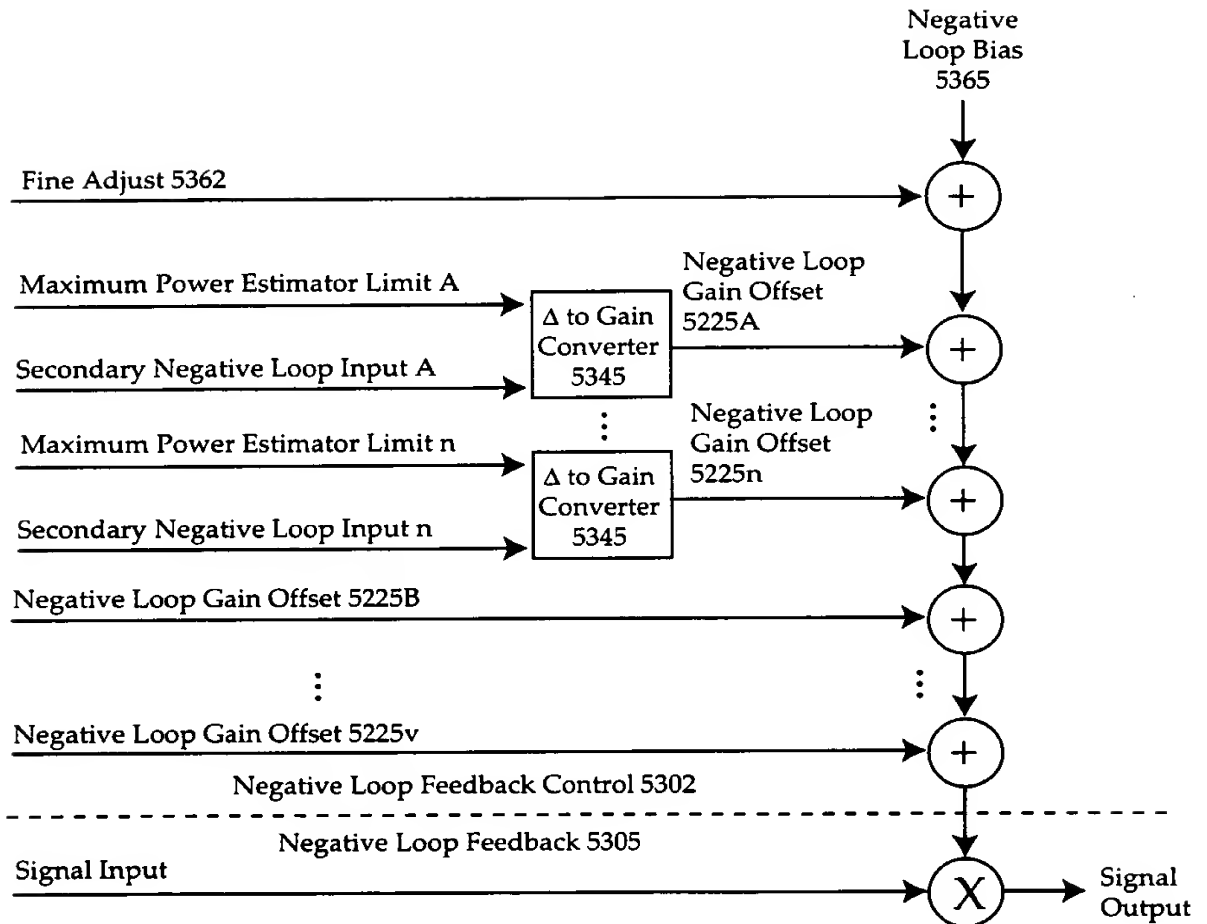


FIG. 53B

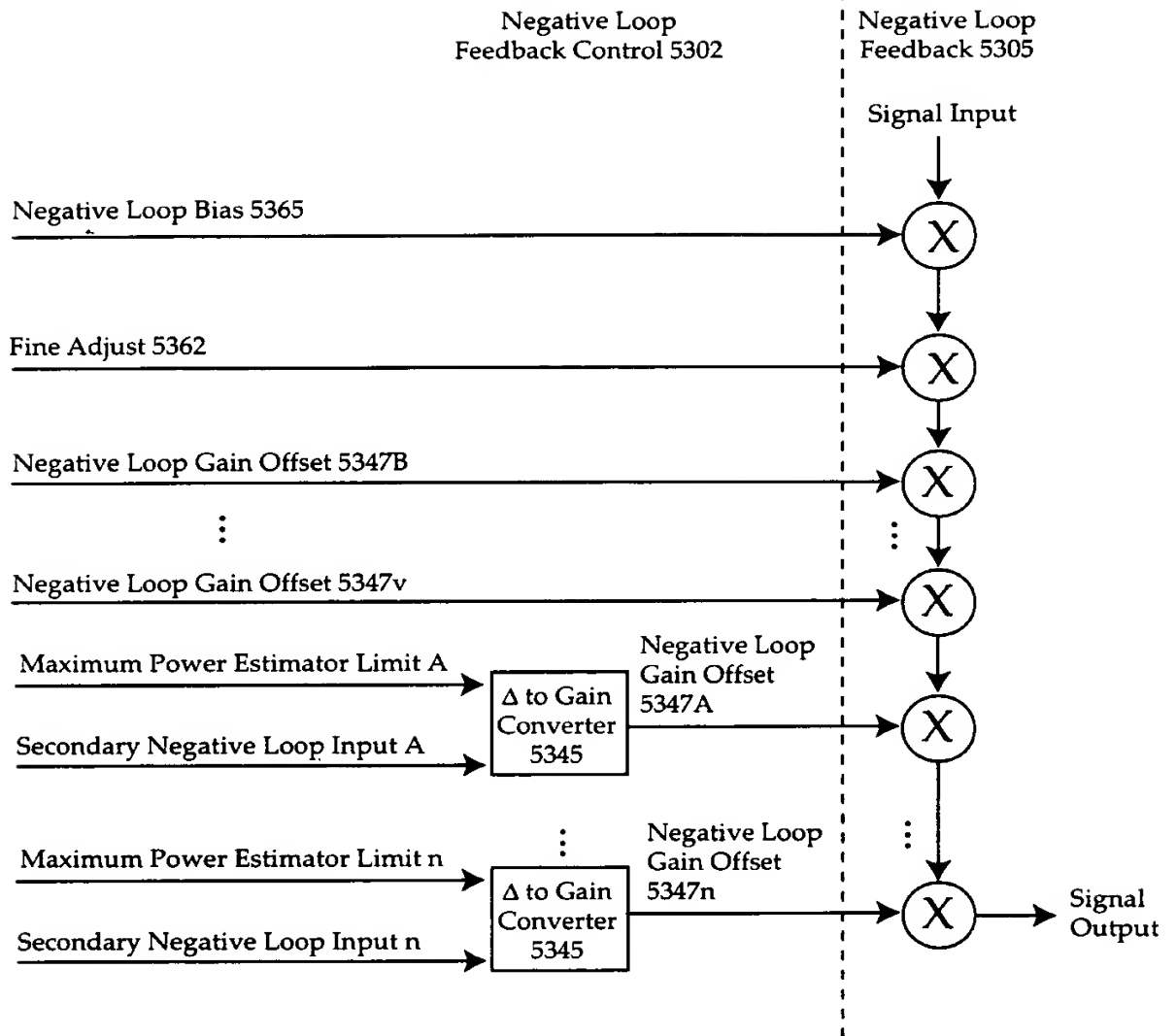


FIG. 53C

006217 6922260

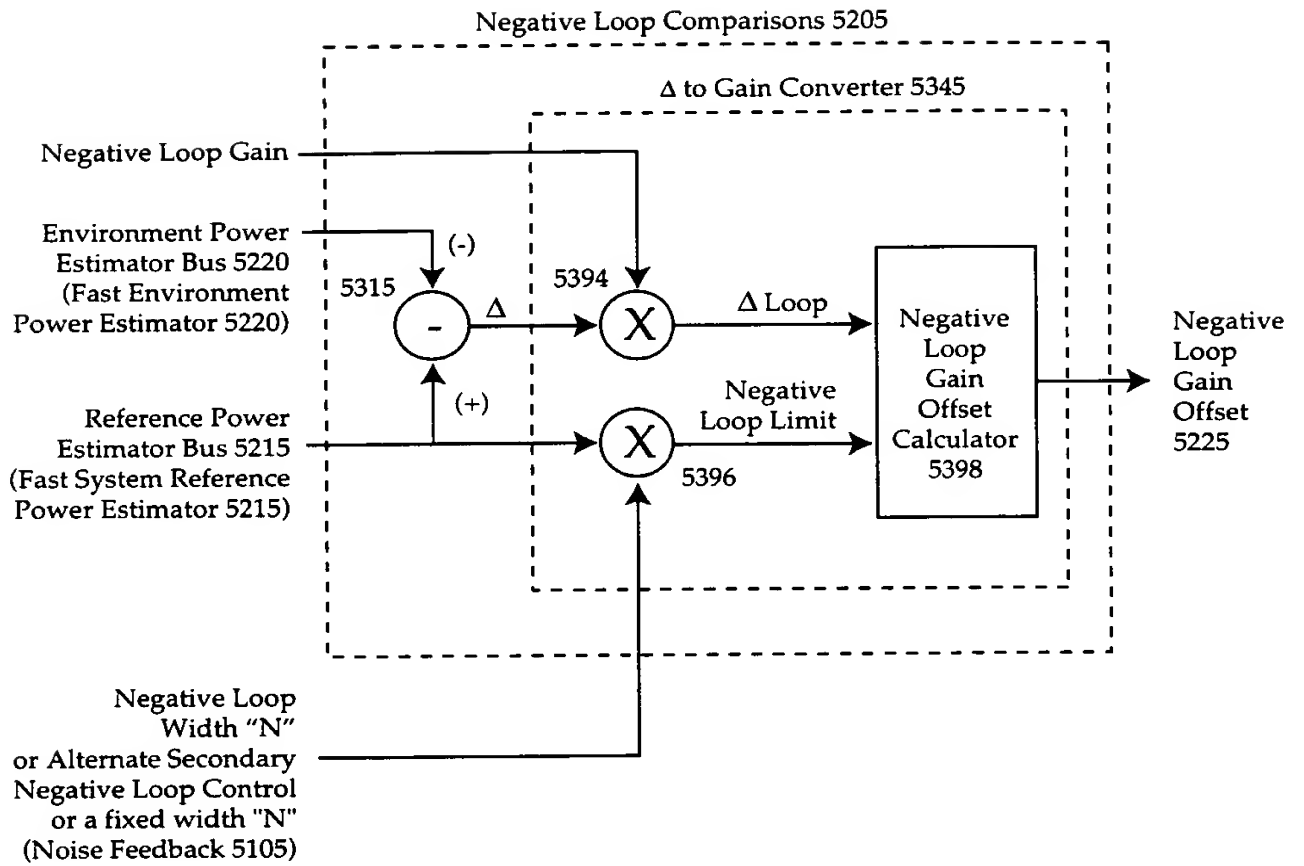


FIG. 53D



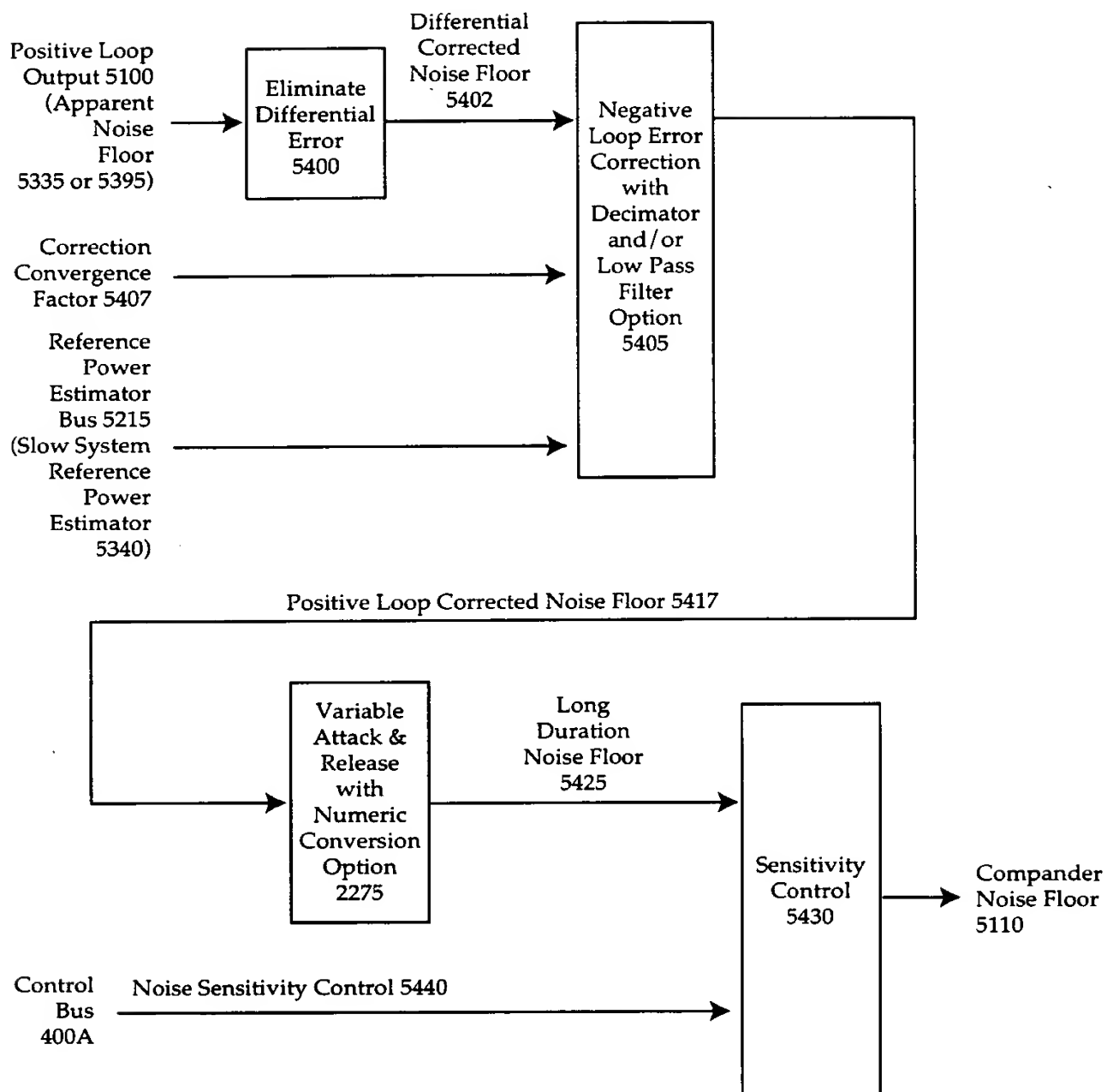


FIG. 54A

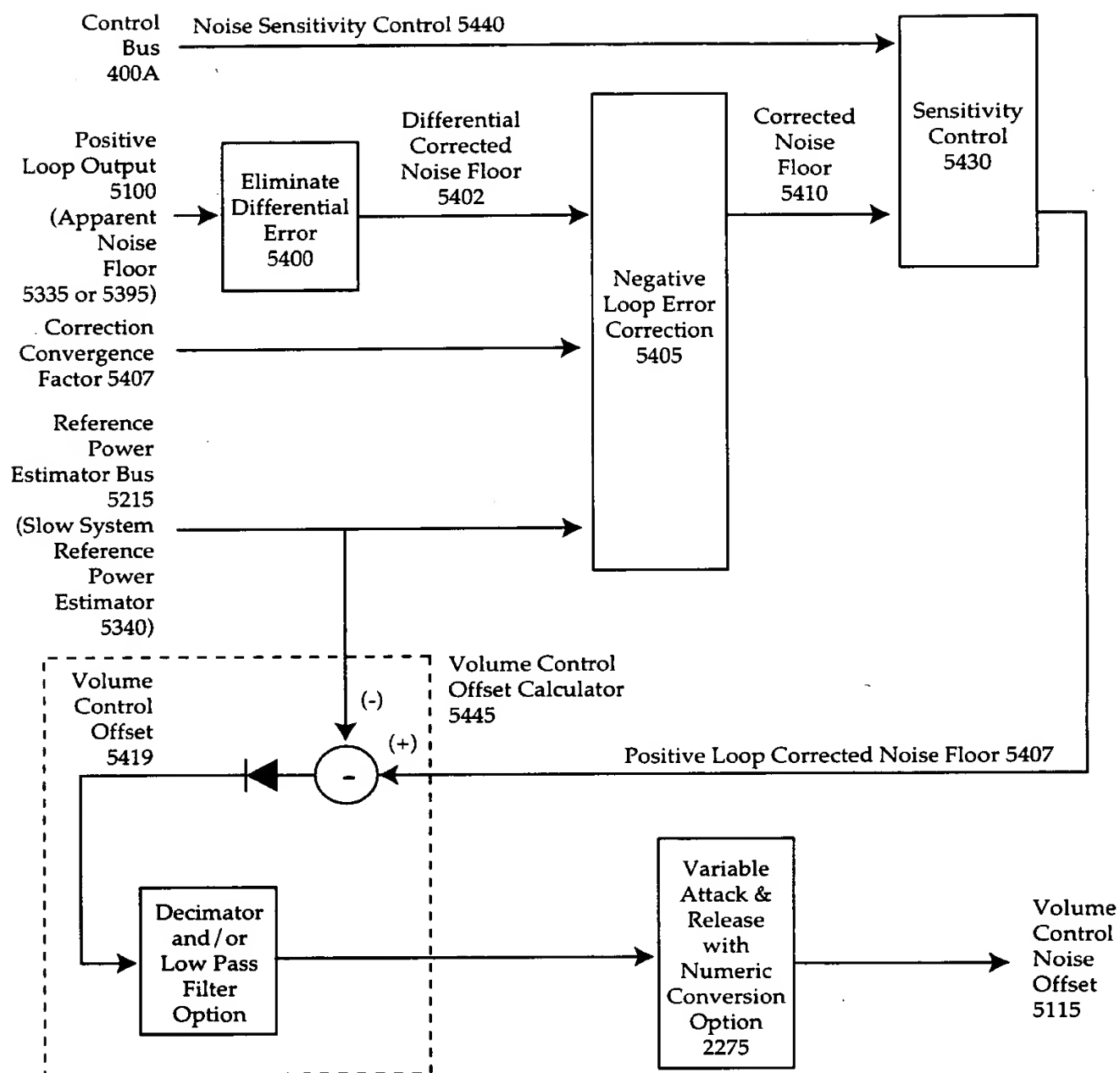


FIG. 54B

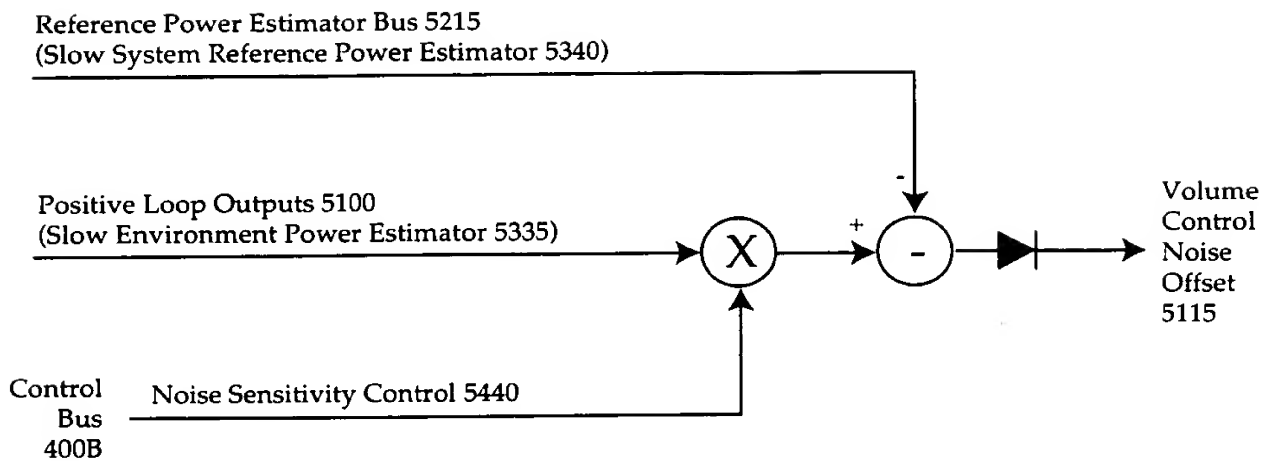


FIG. 54C

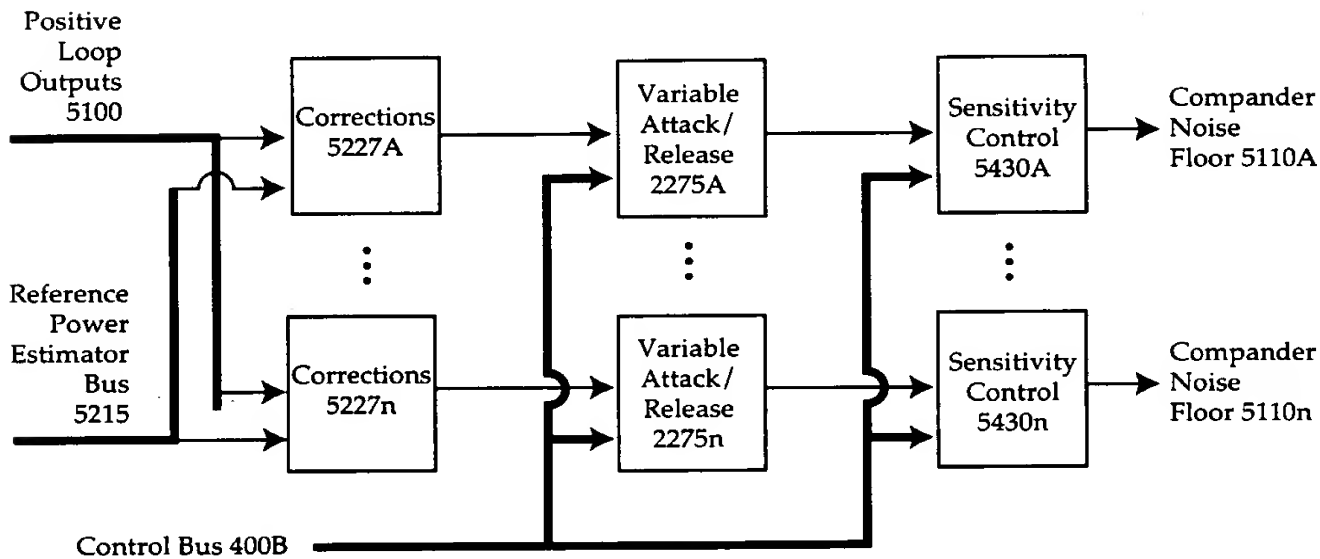


FIG. 54D

00627T 6922260

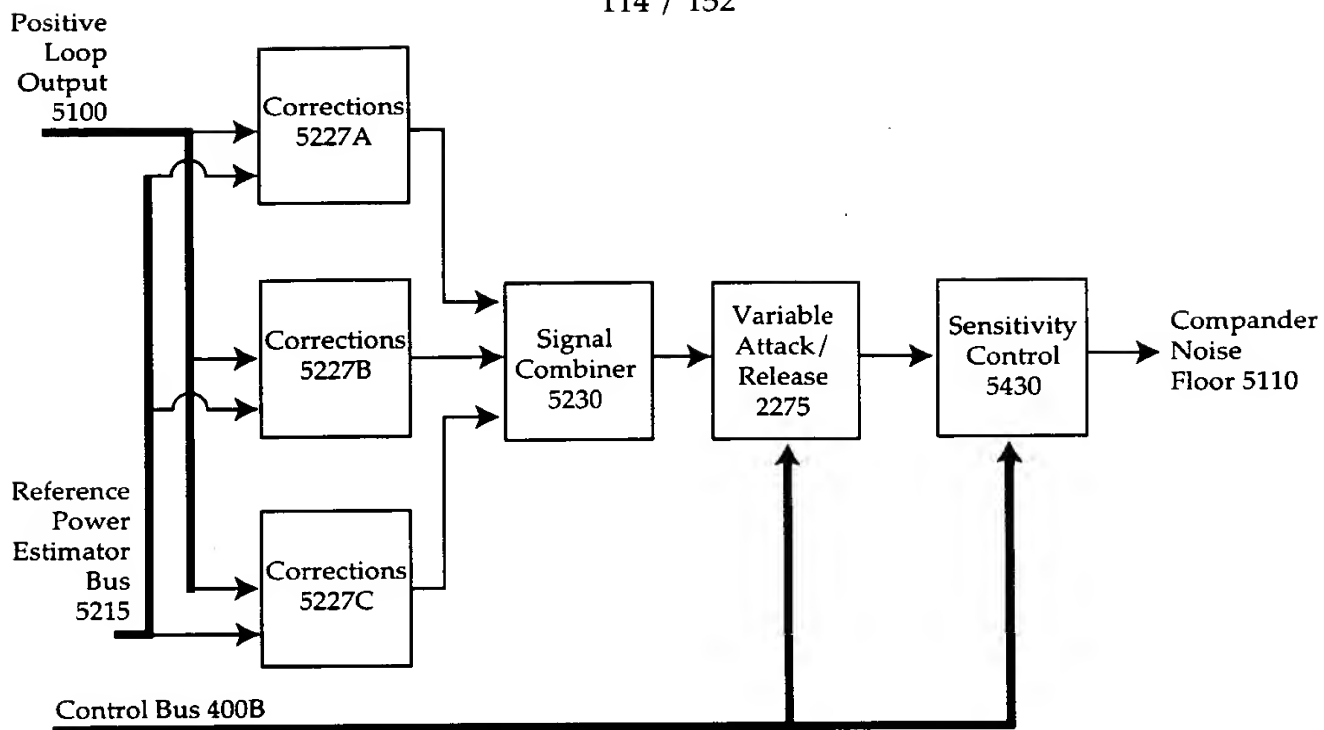


FIG. 54E

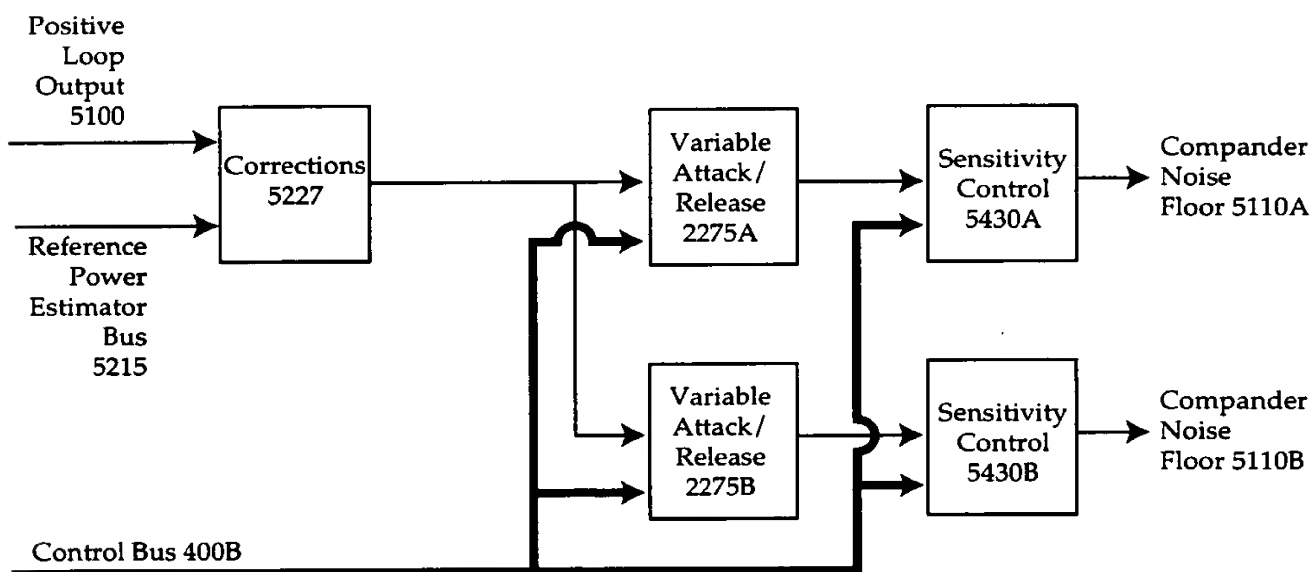


FIG. 54F

00627T 6922260

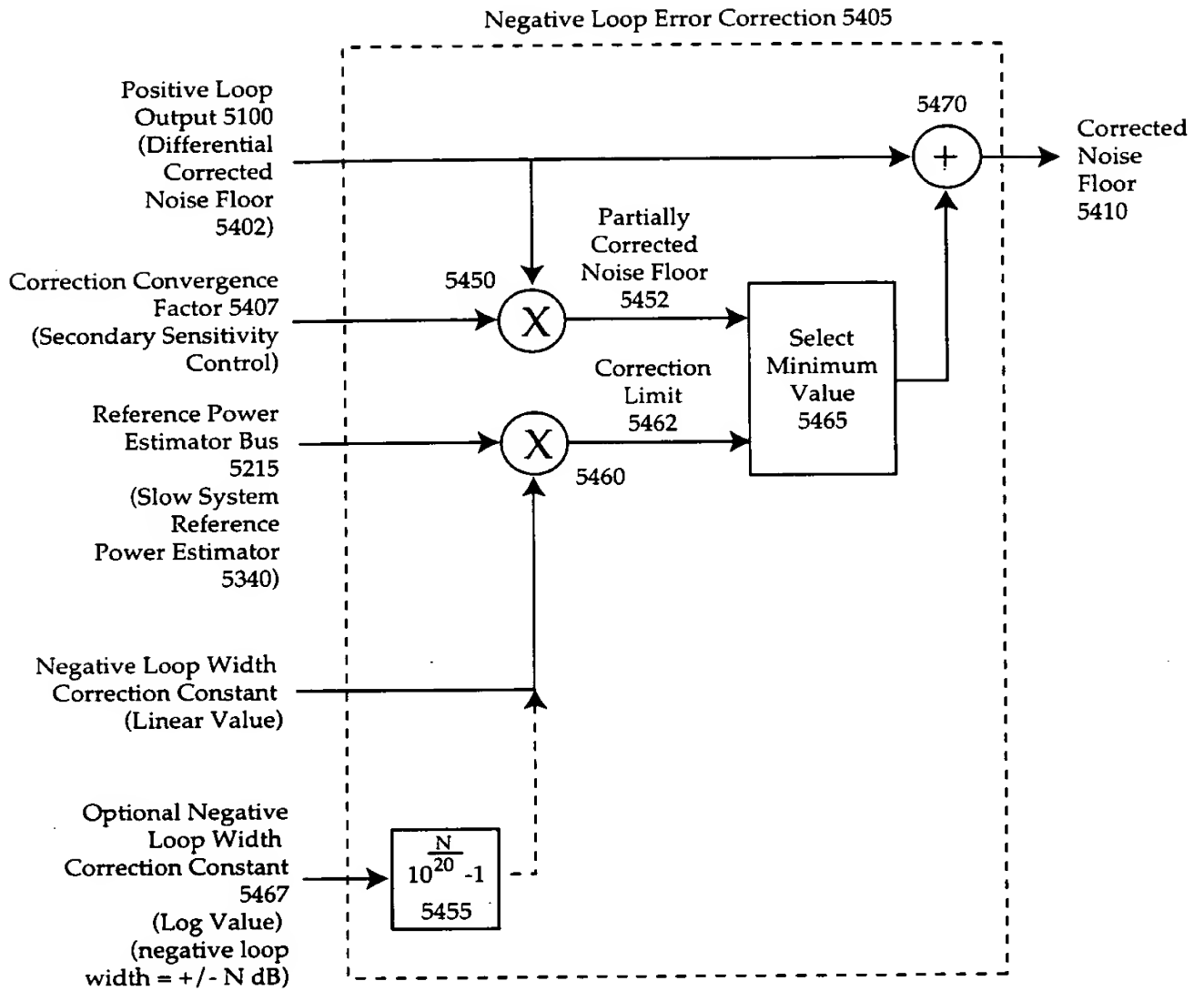


FIG. 54G

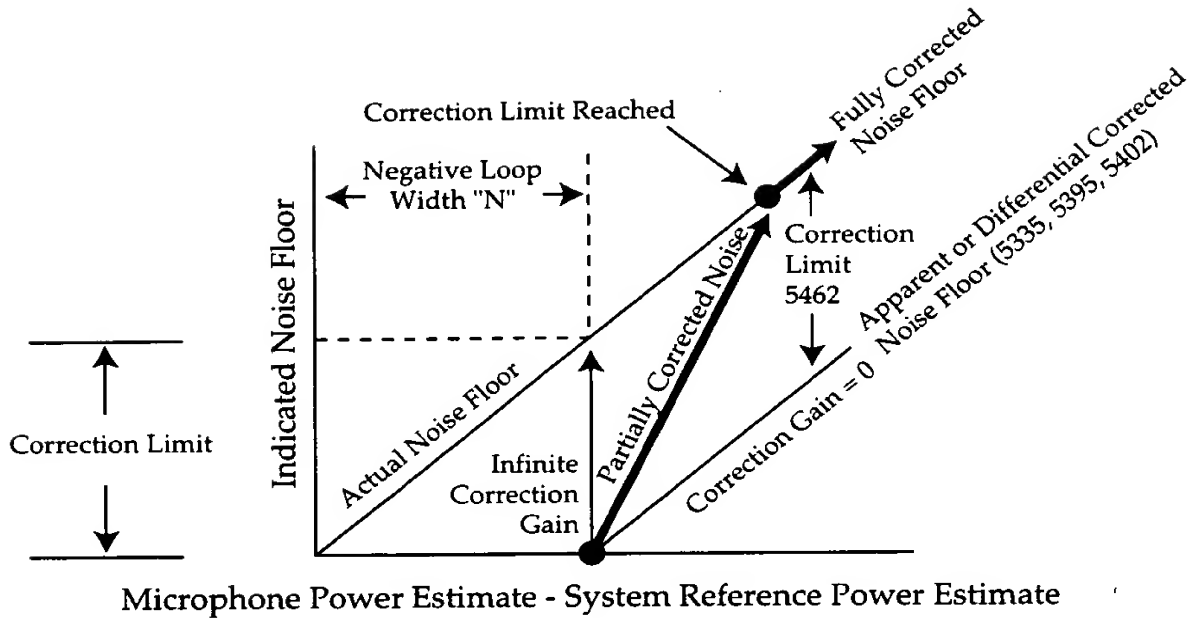


FIG. 54H

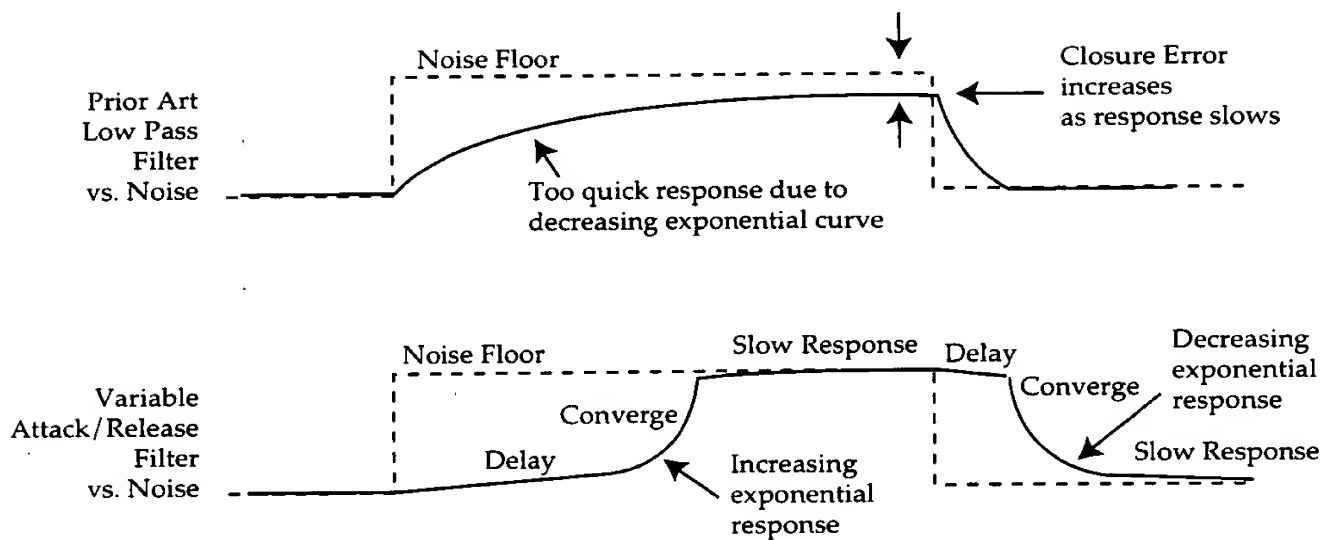


FIG. 55A

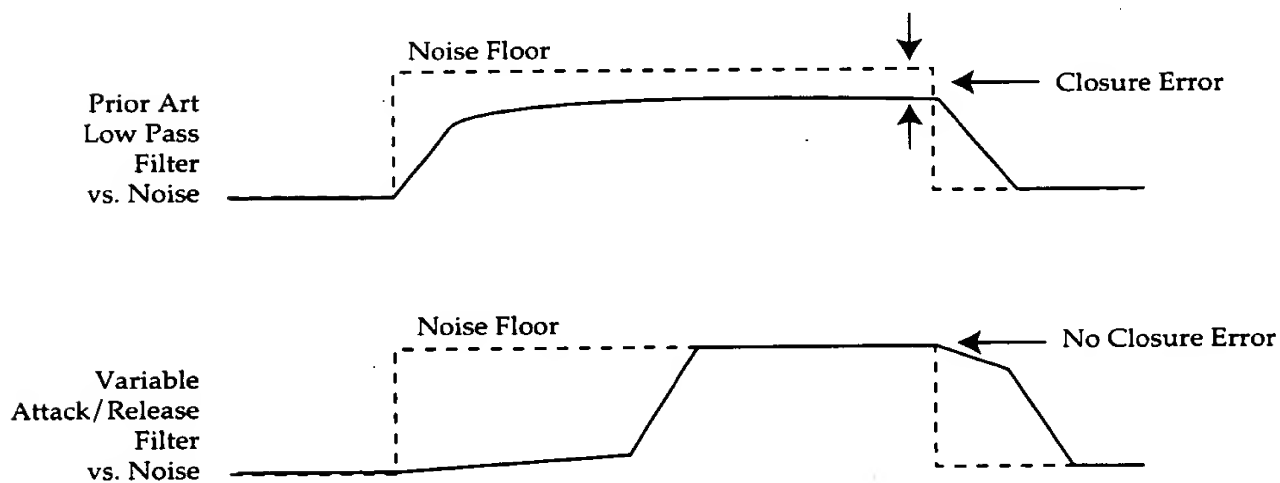


FIG. 55B

006211 6927260

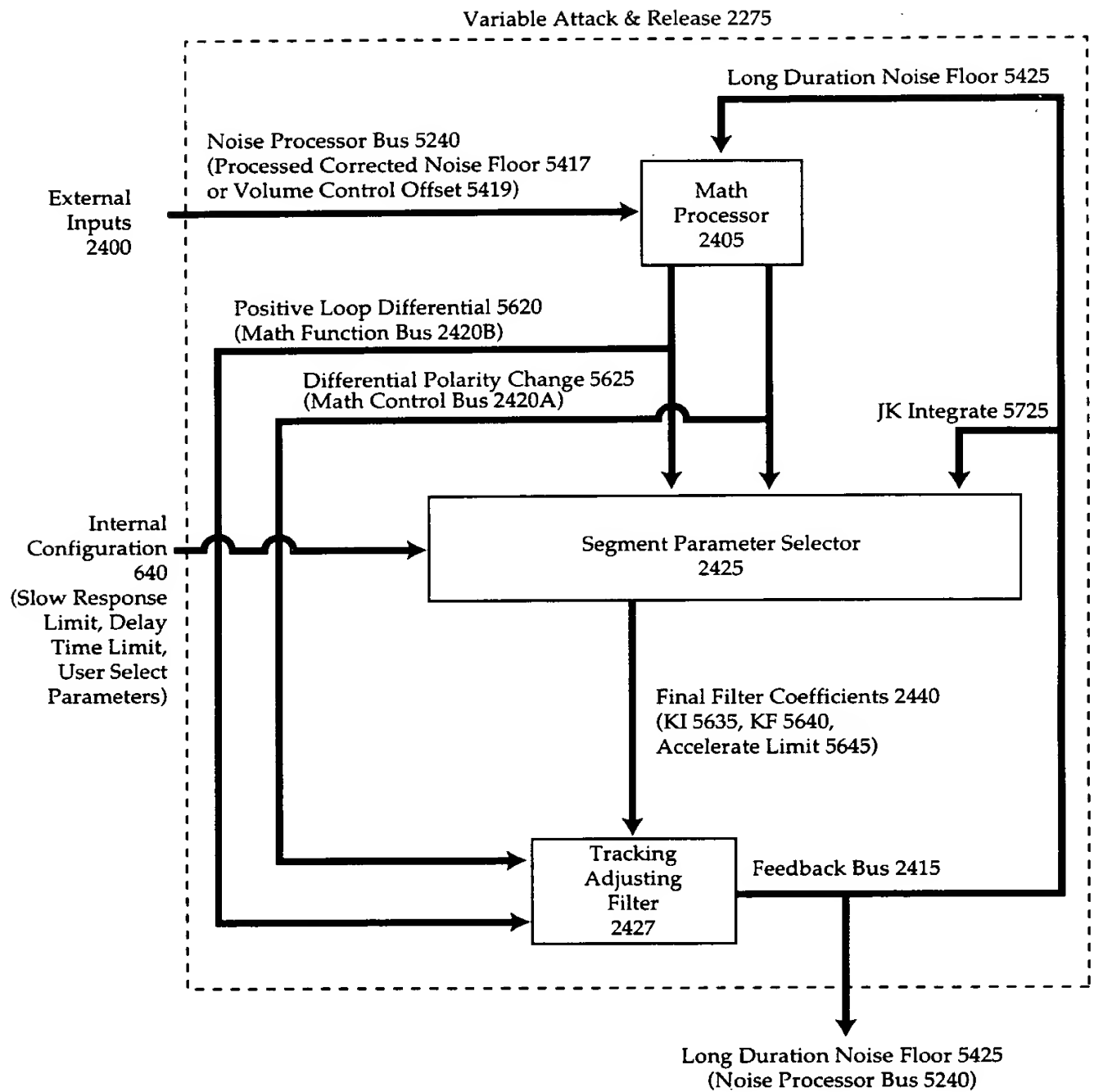


FIG. 55C

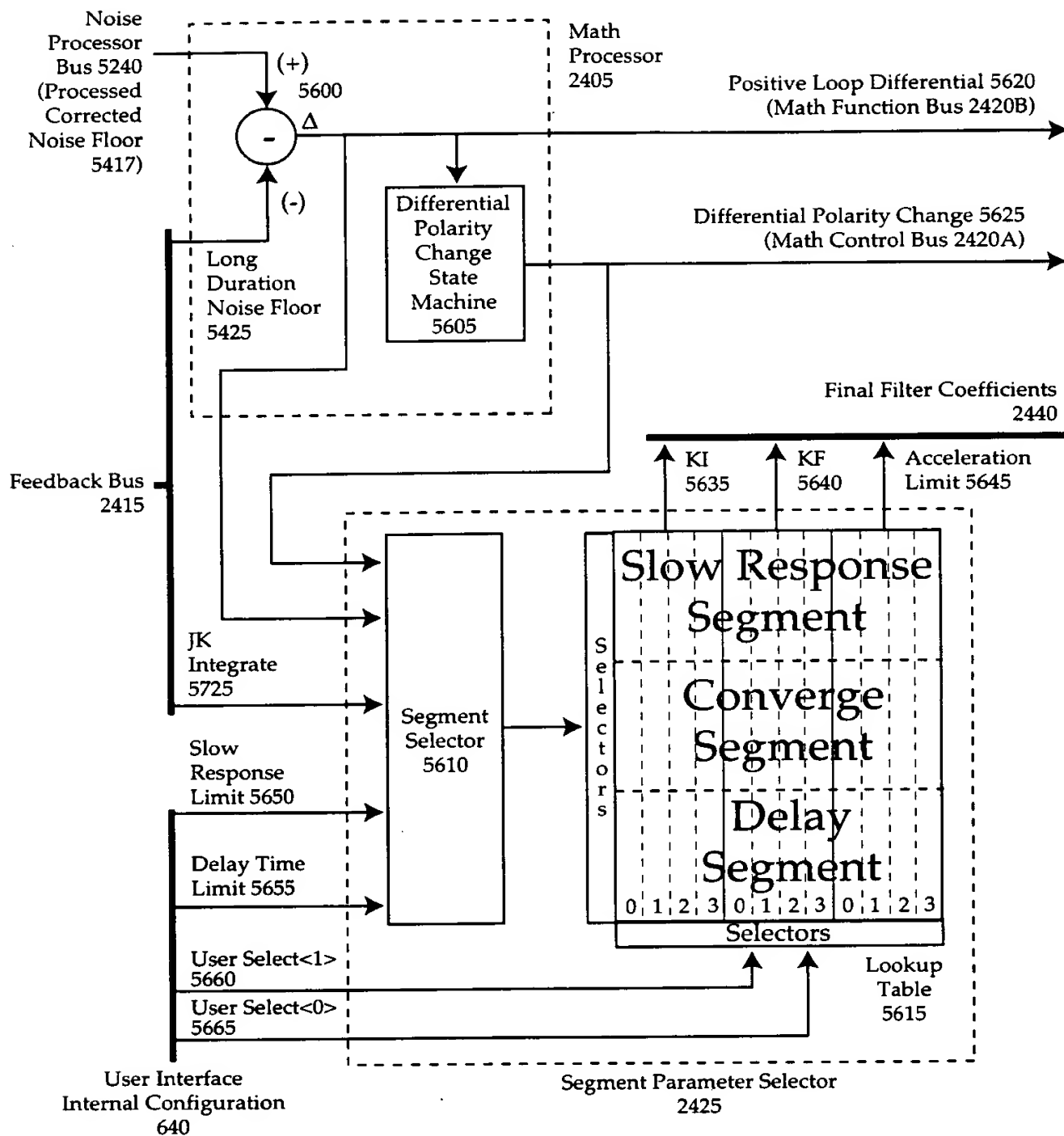


FIG. 56

Differential Polarity Change 5625
(Math Control Bus 2420A)

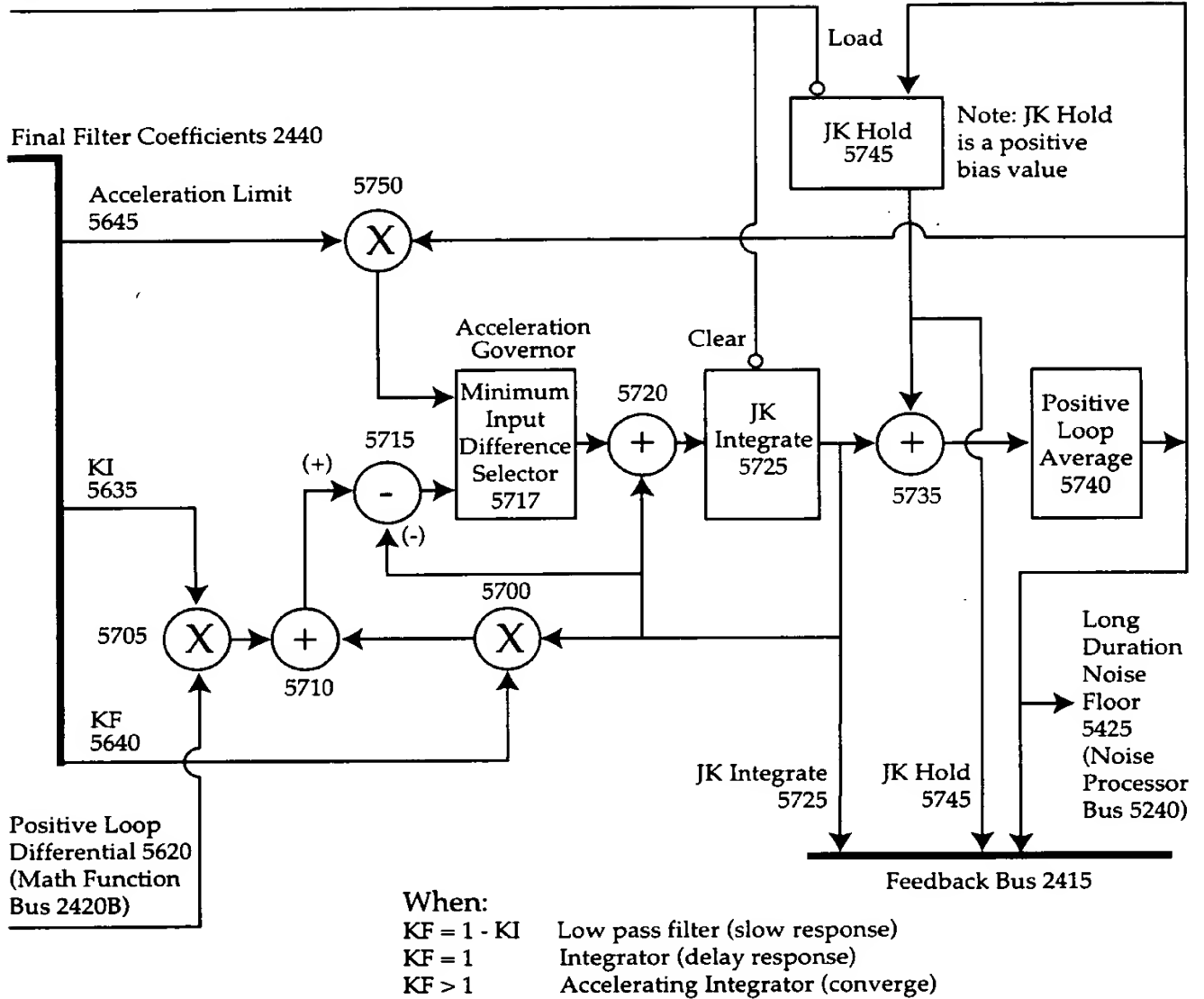


FIG. 57A

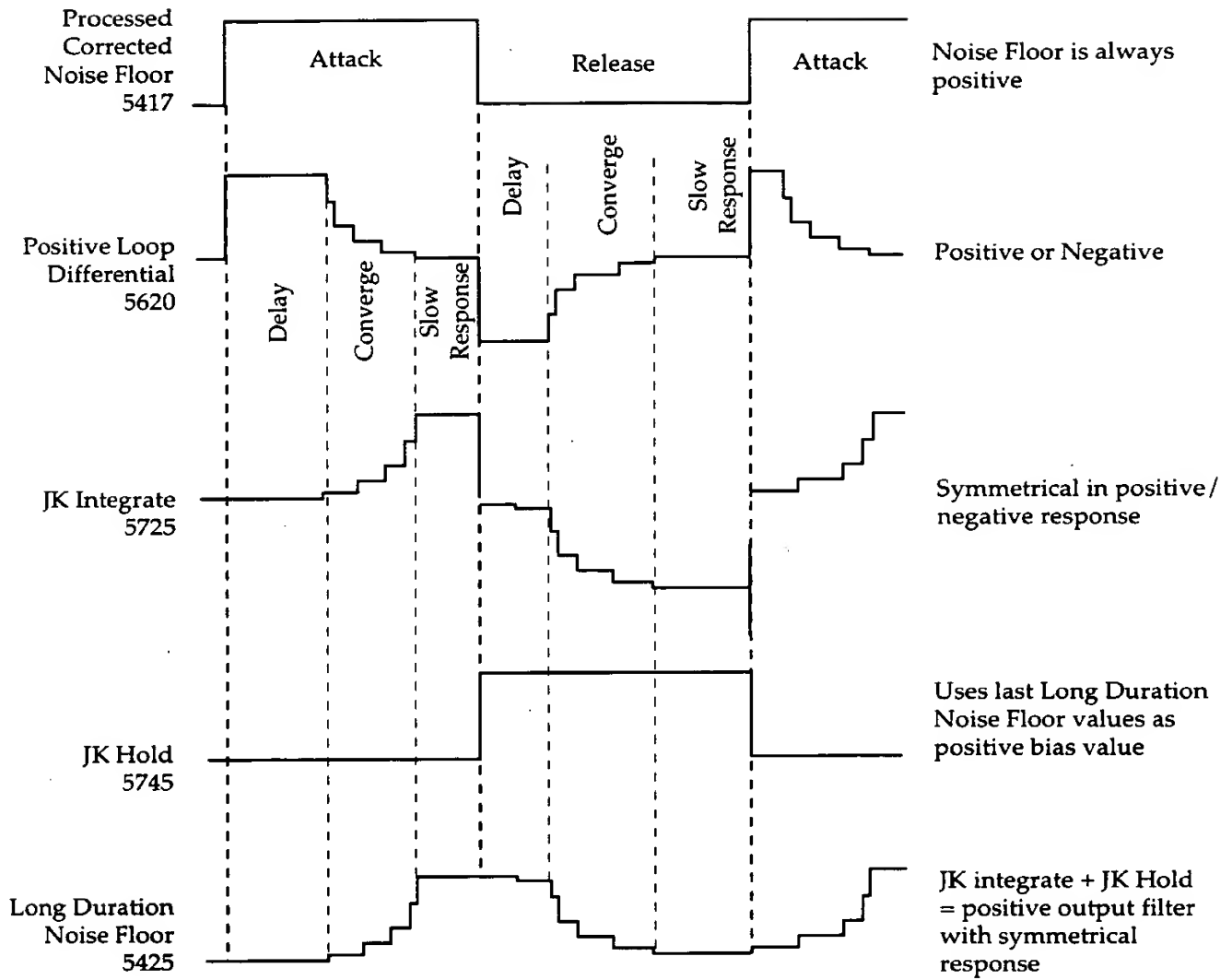


FIG. 57B

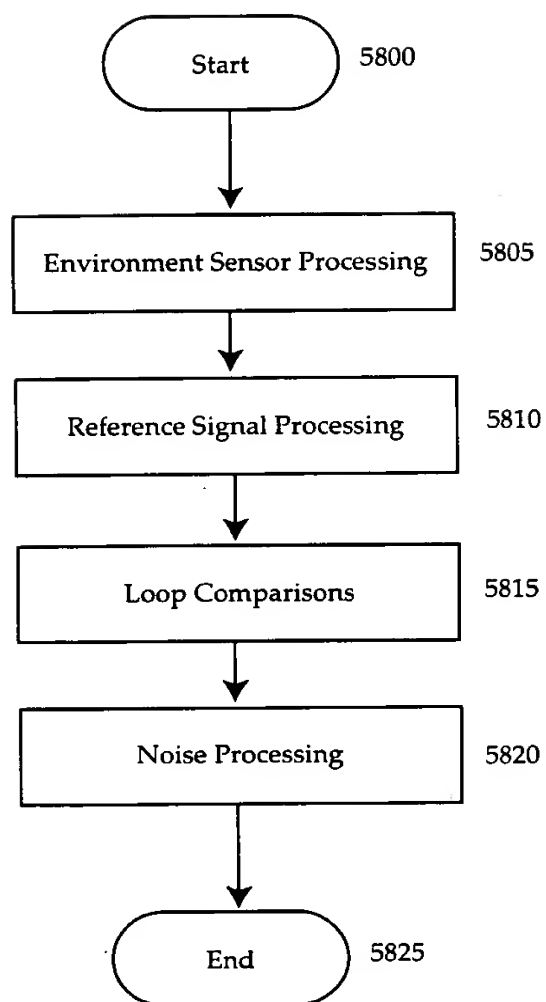
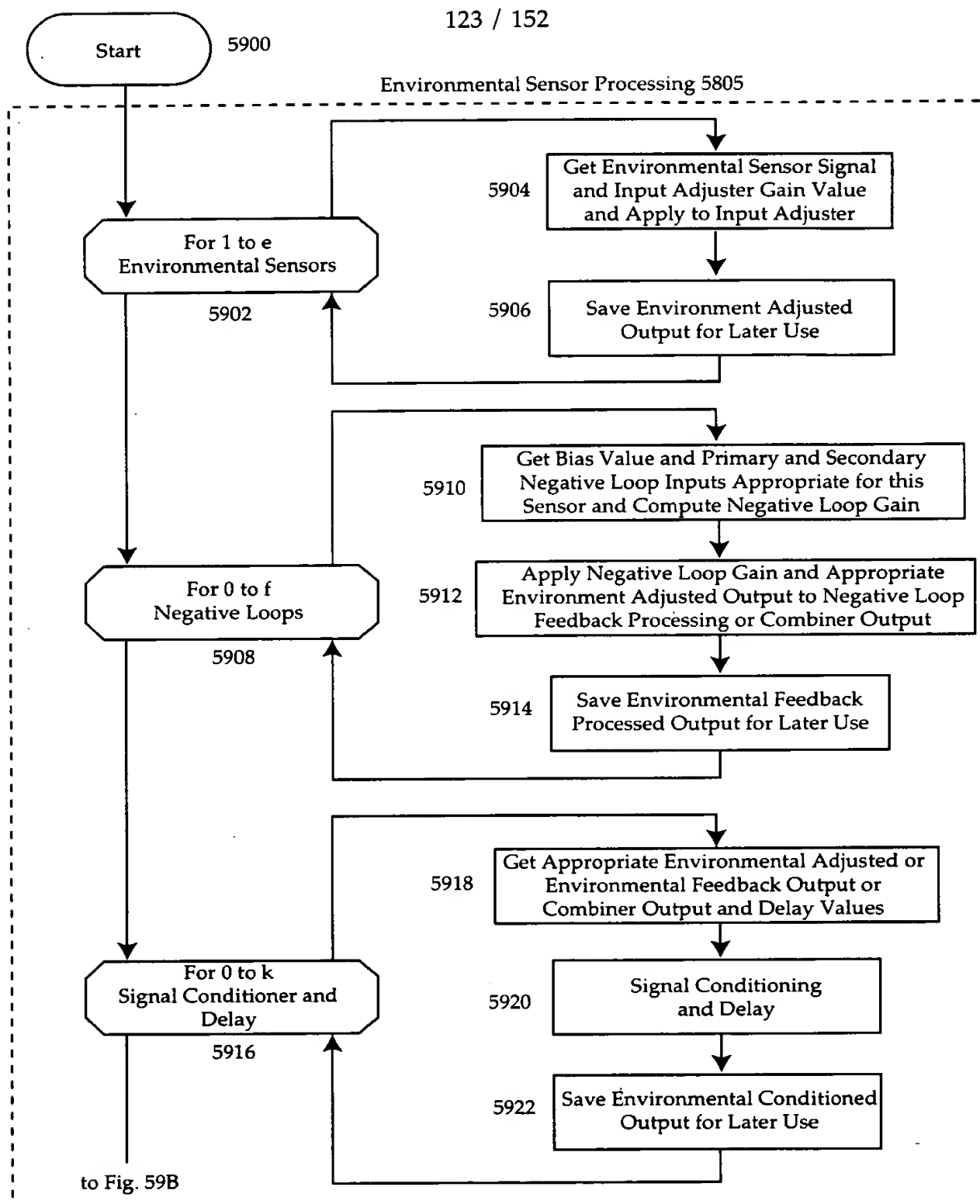


FIG. 58

006211 692260 09727269 112900



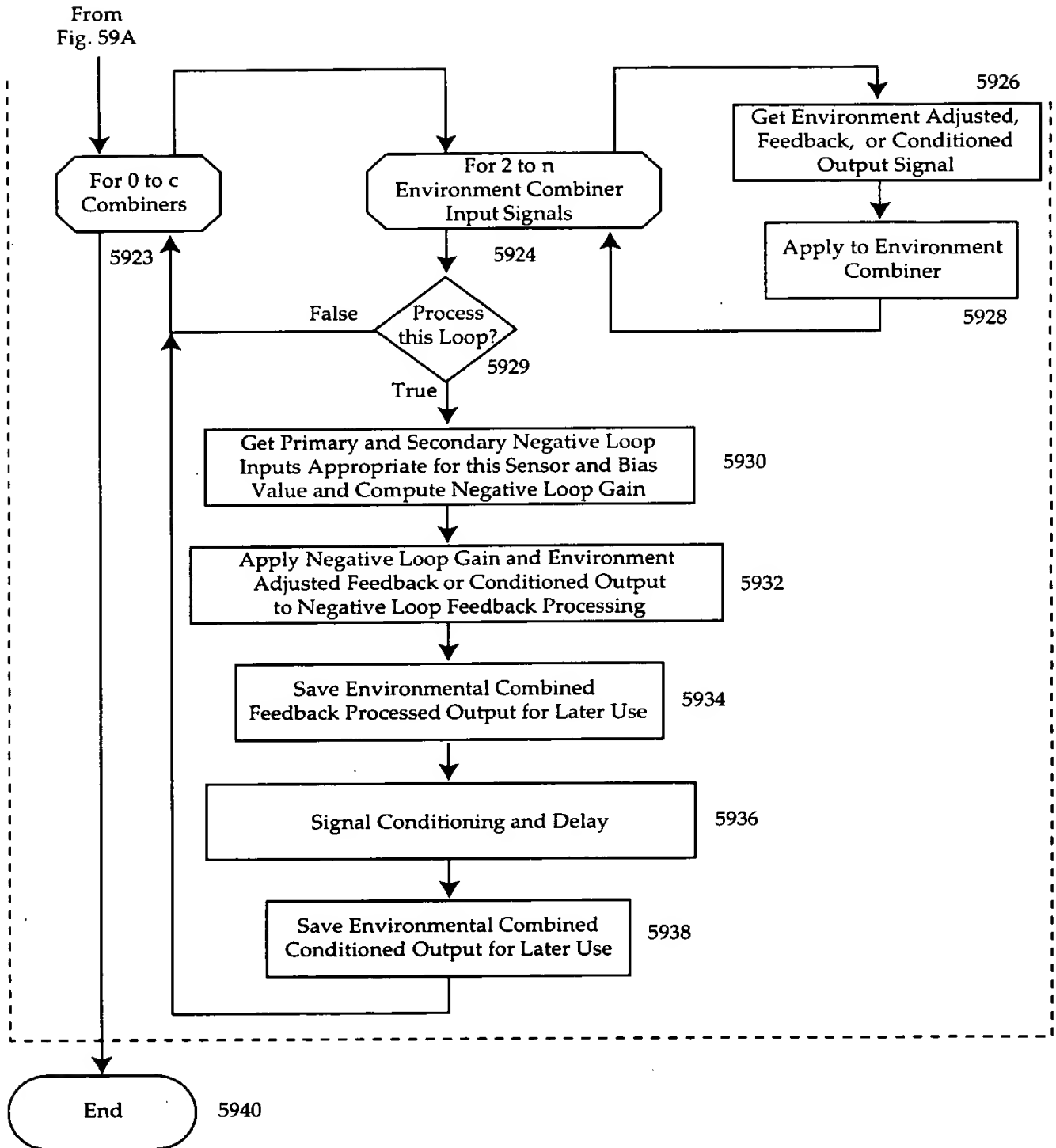


FIG. 59B

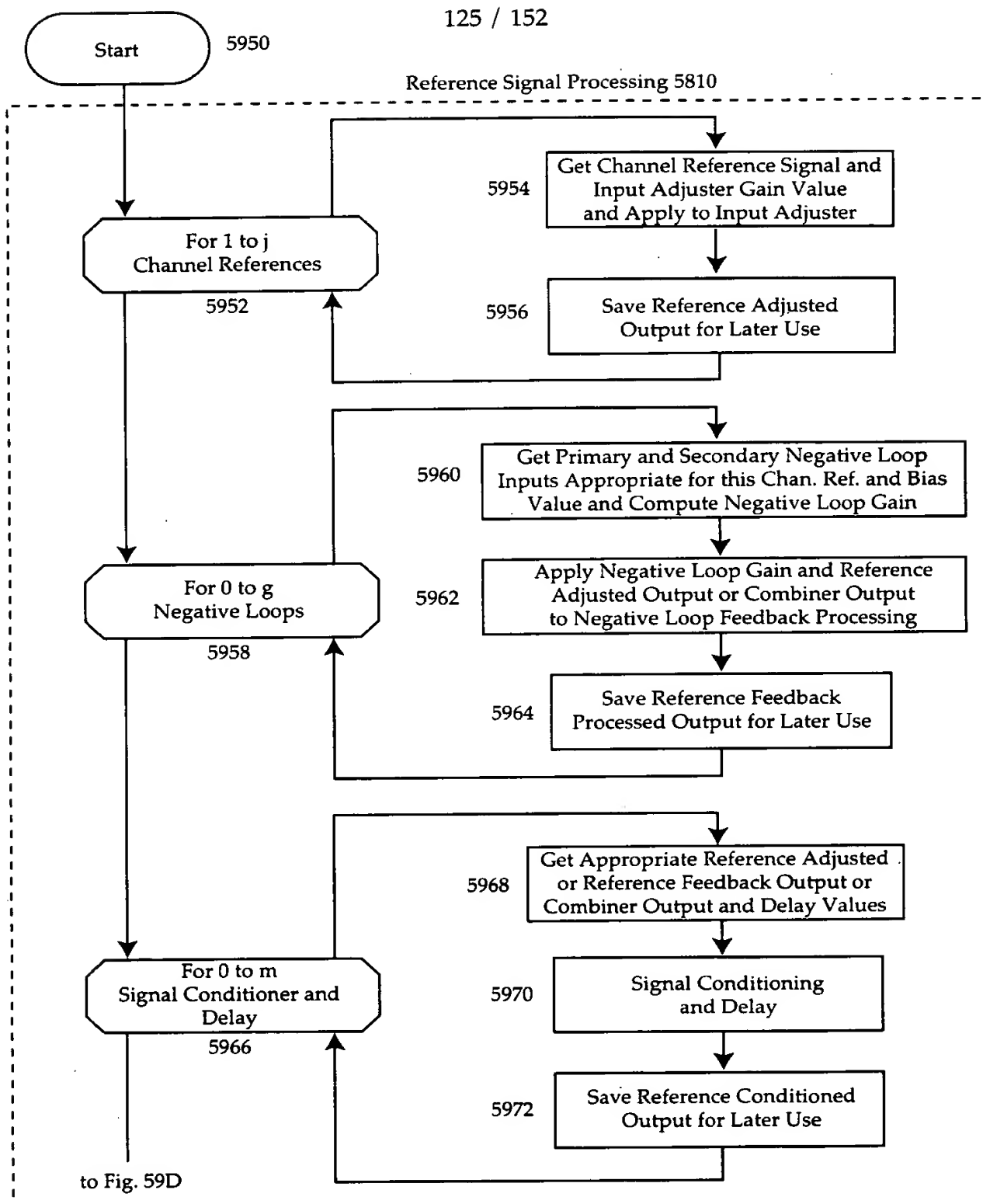


FIG. 59C

006211 692260

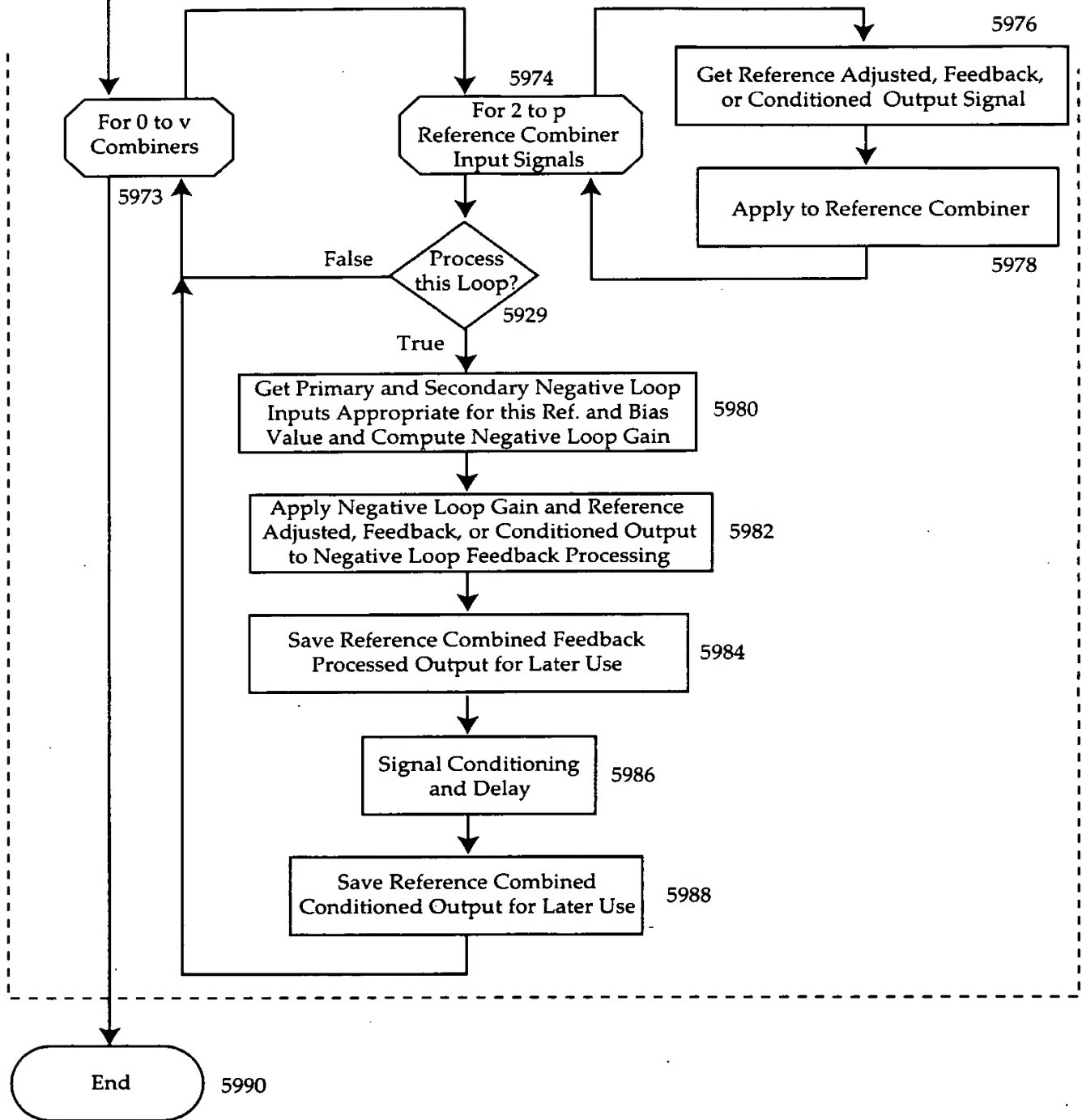
From
Fig. 59A

FIG. 59D

00621T" 6922260

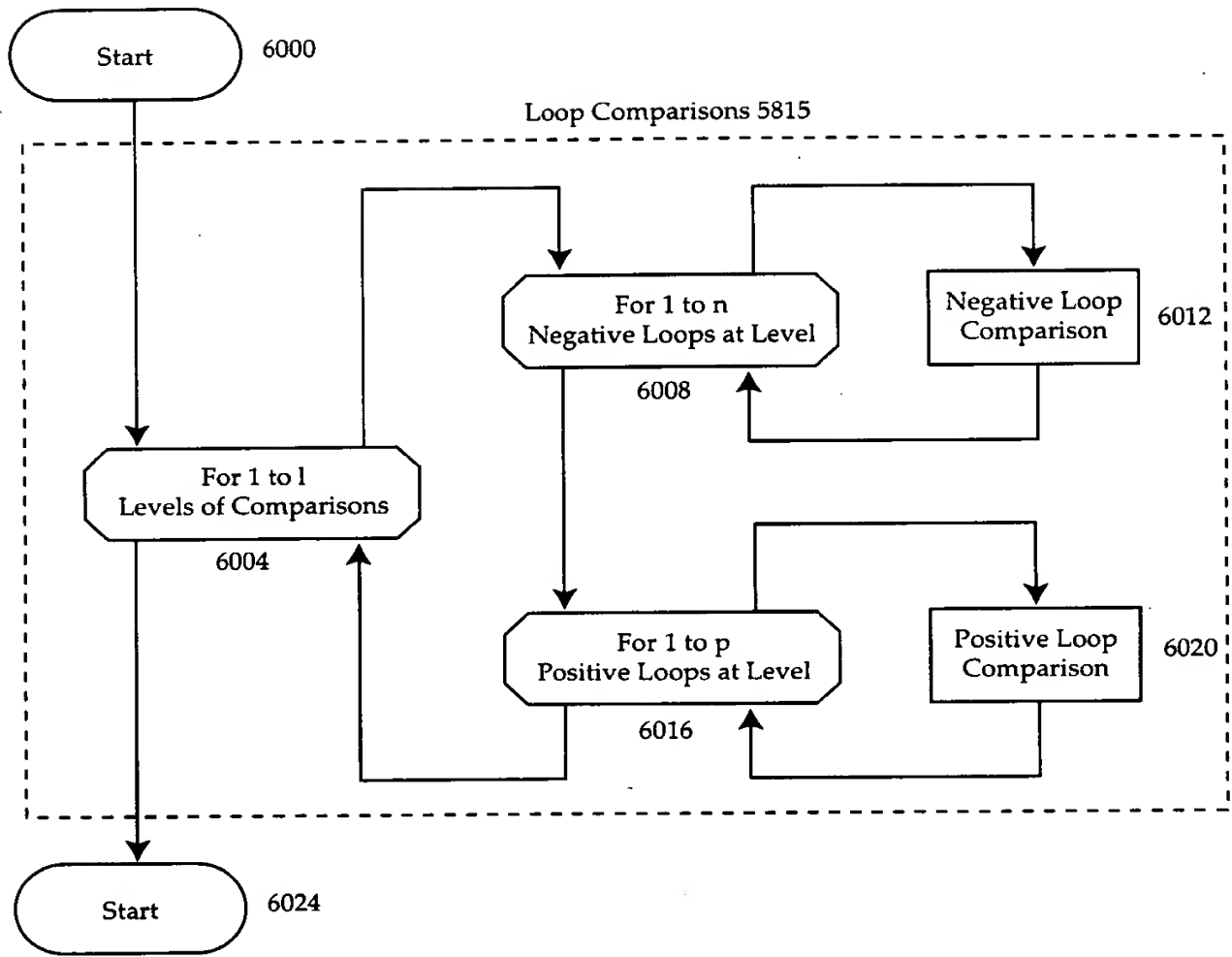


FIG. 60A

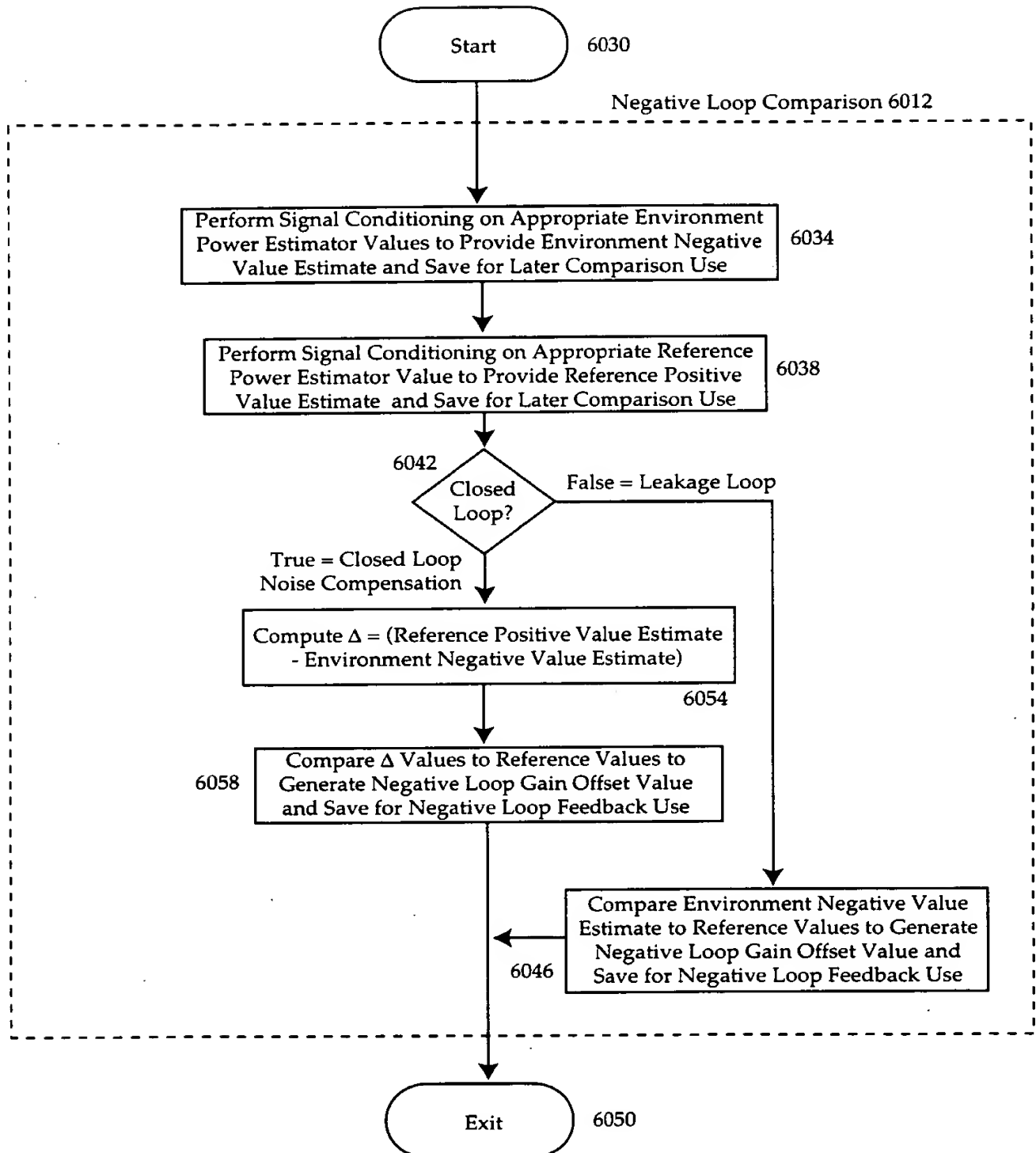


FIG. 60B

006277 6922260

006277" 6922260

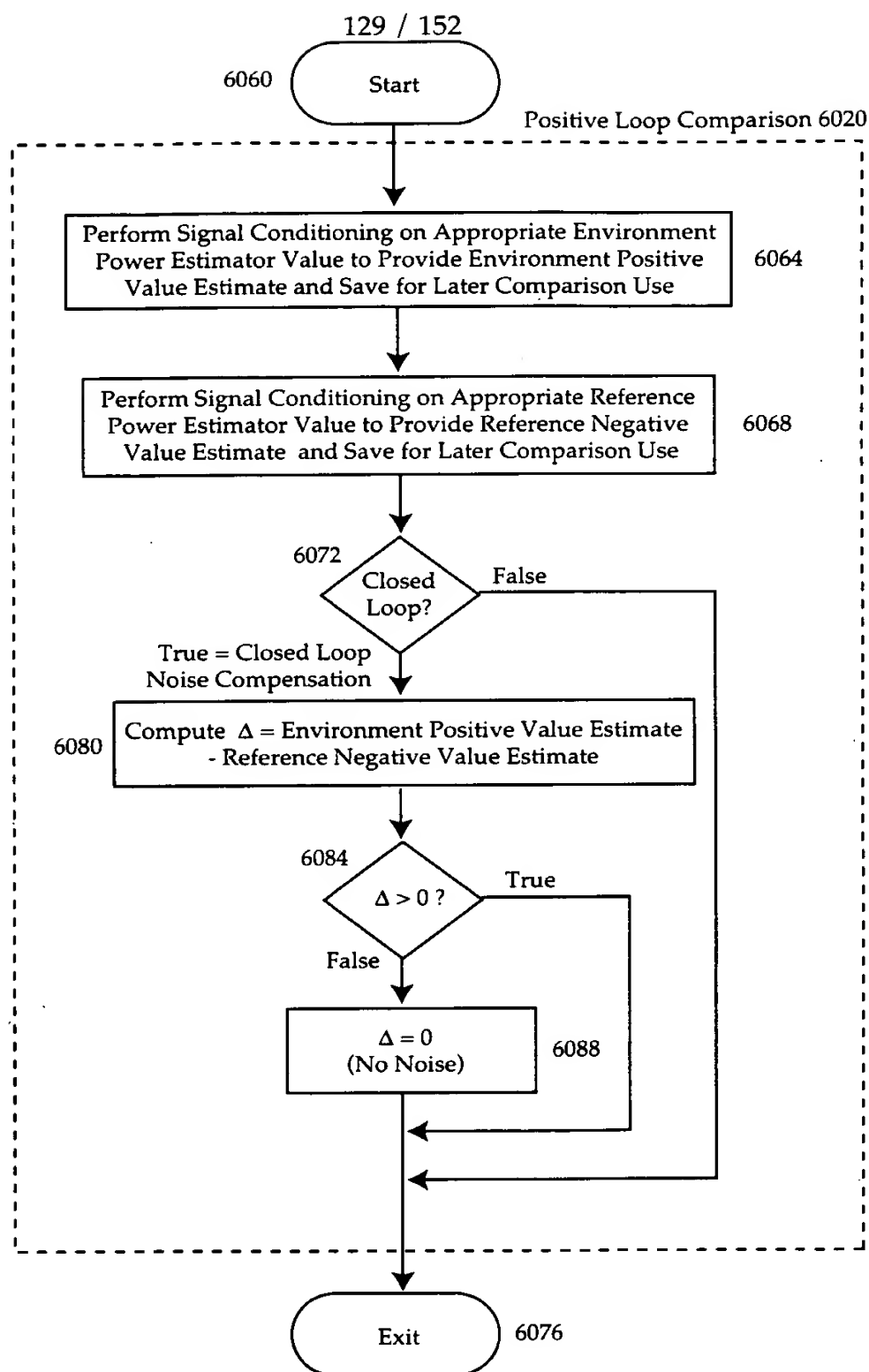


FIG. 60C

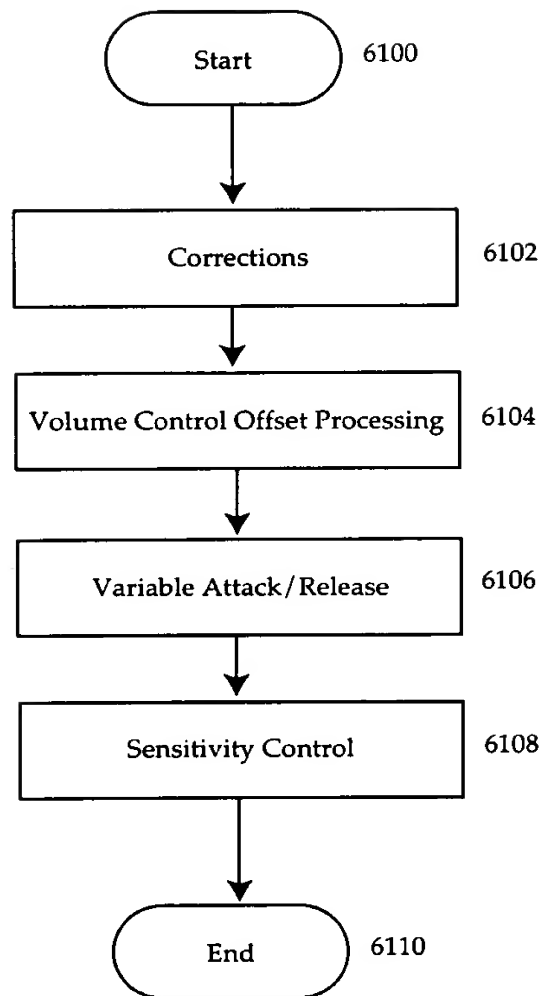


FIG. 61A

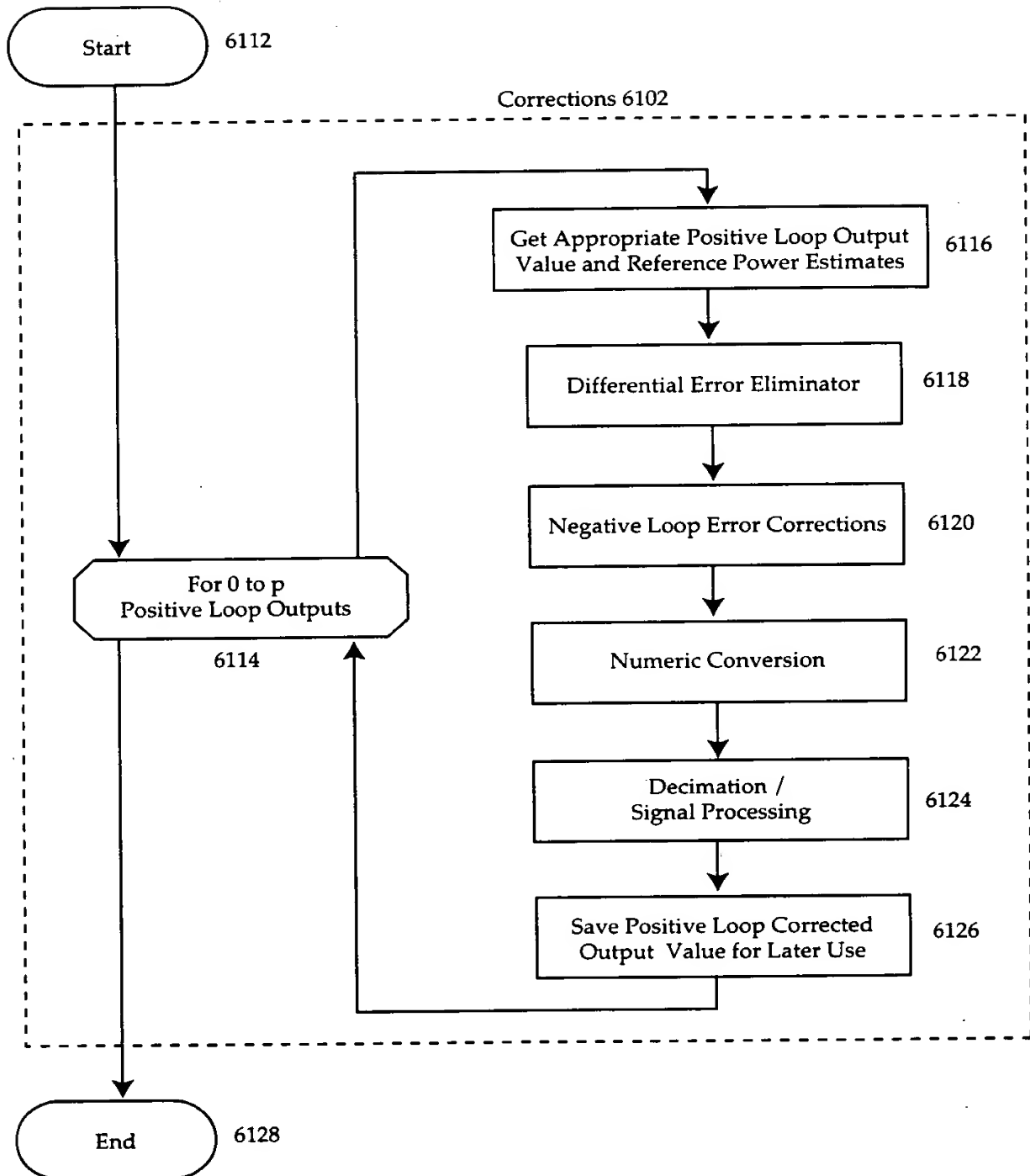


FIG. 61B

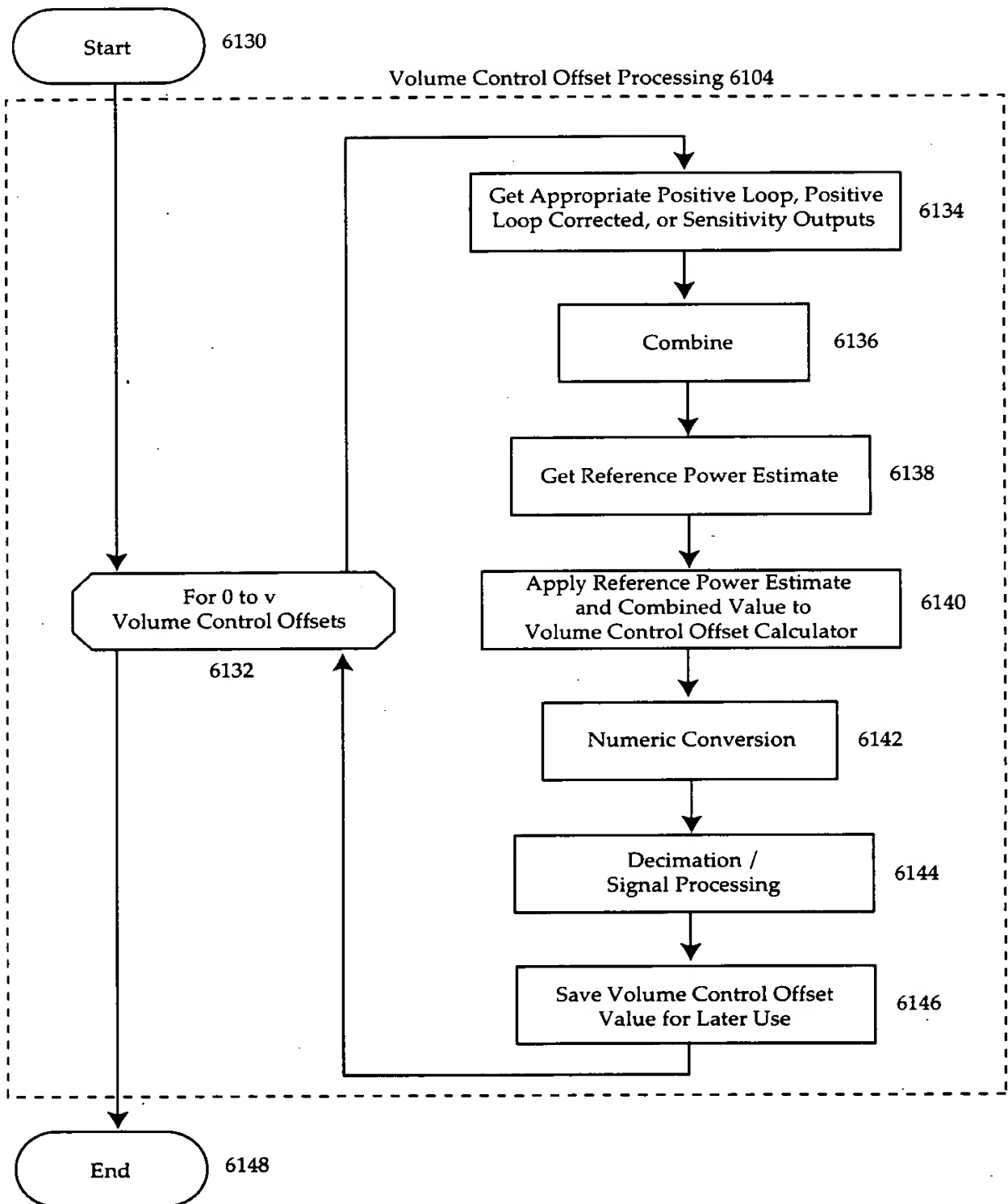


FIG. 61C

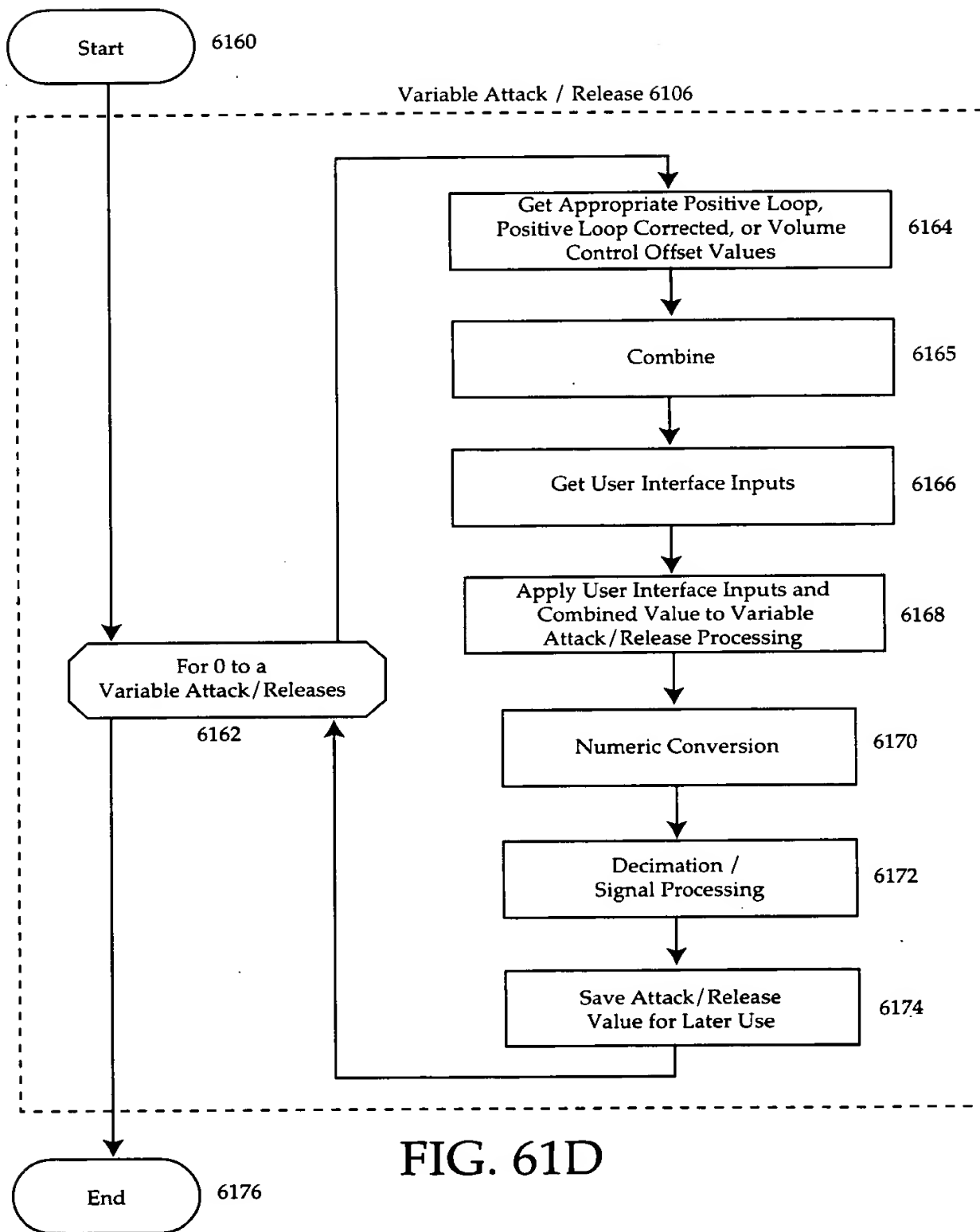


FIG. 61D

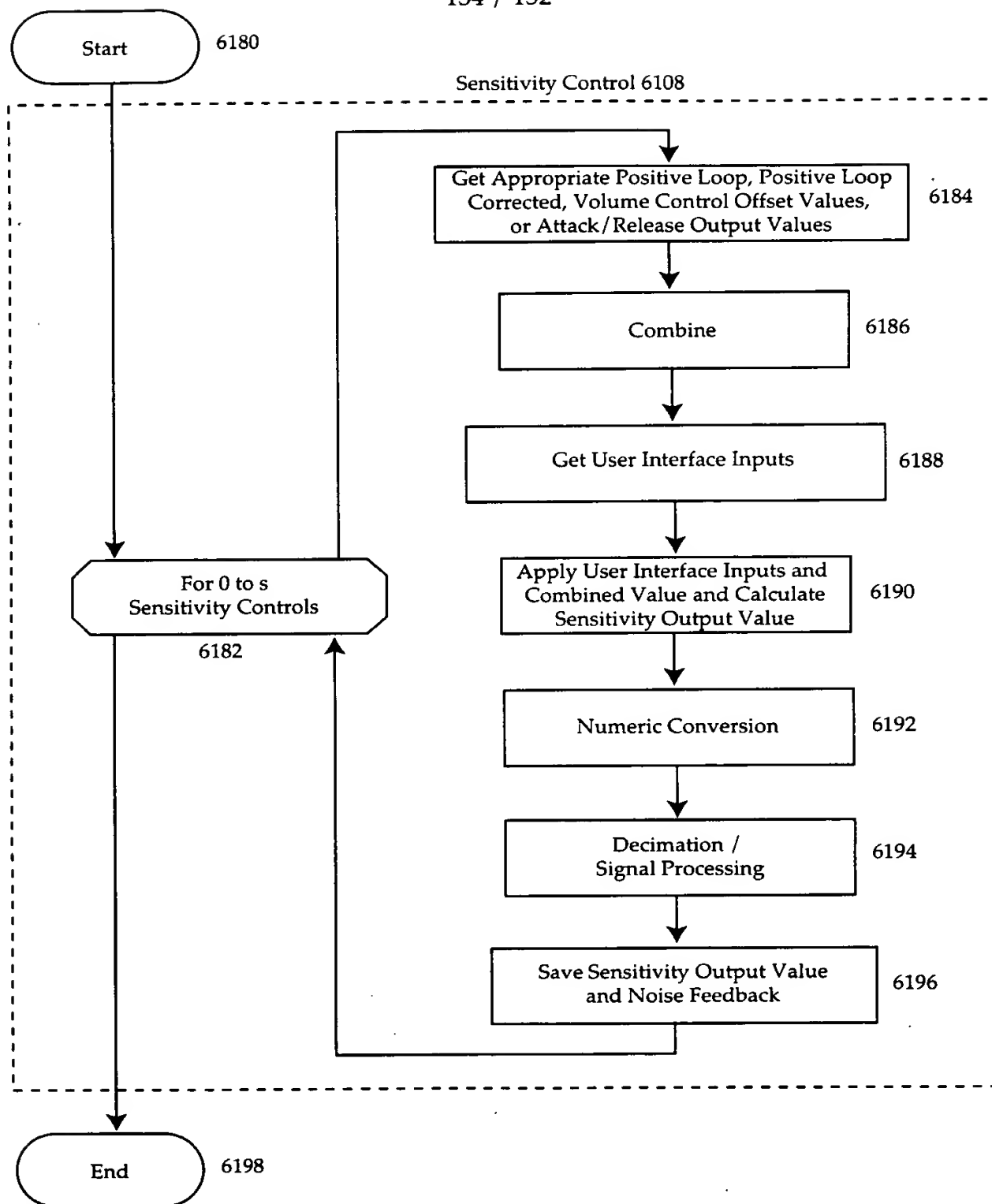


FIG. 61E



FIG. 62

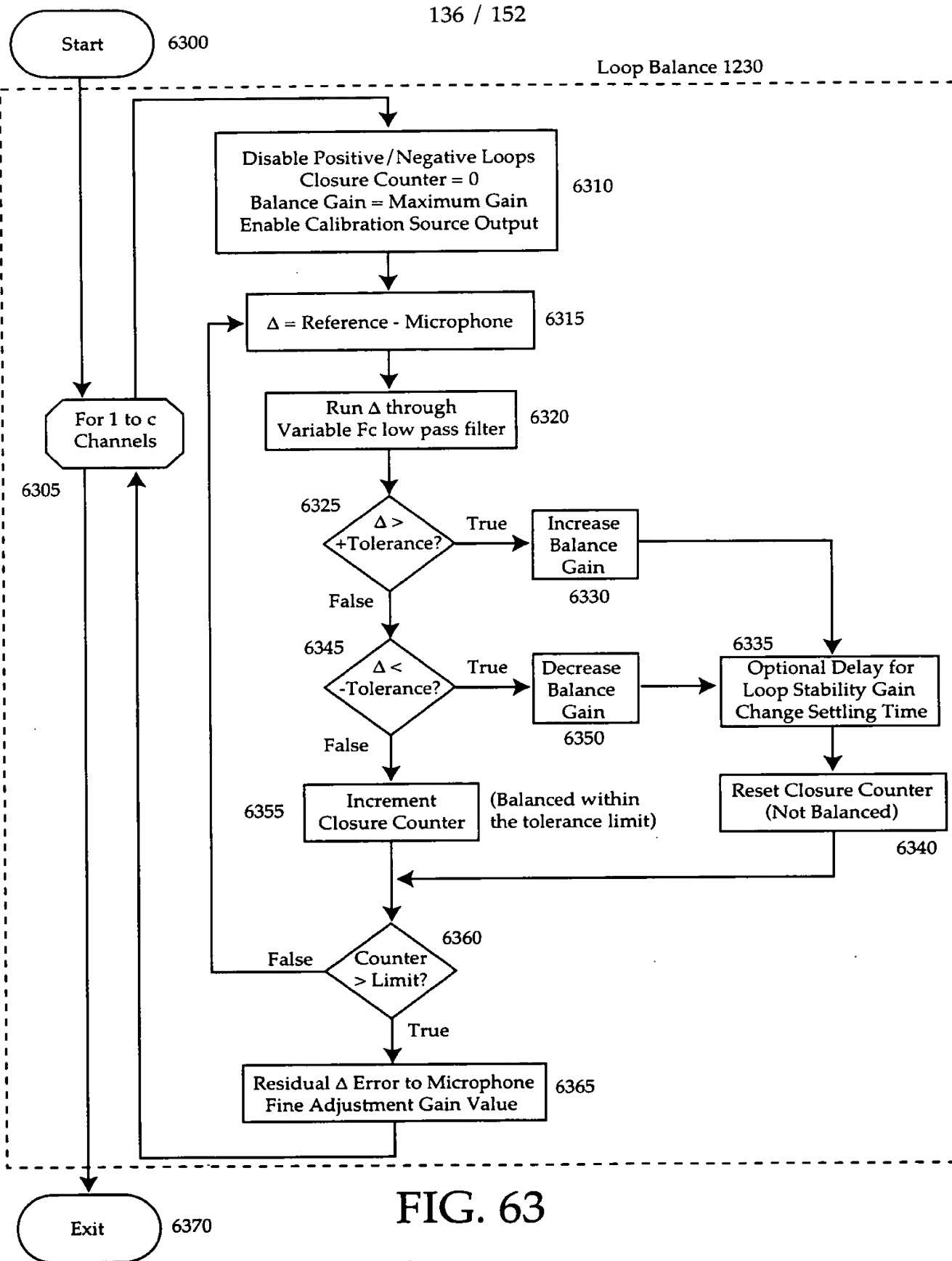


FIG. 63

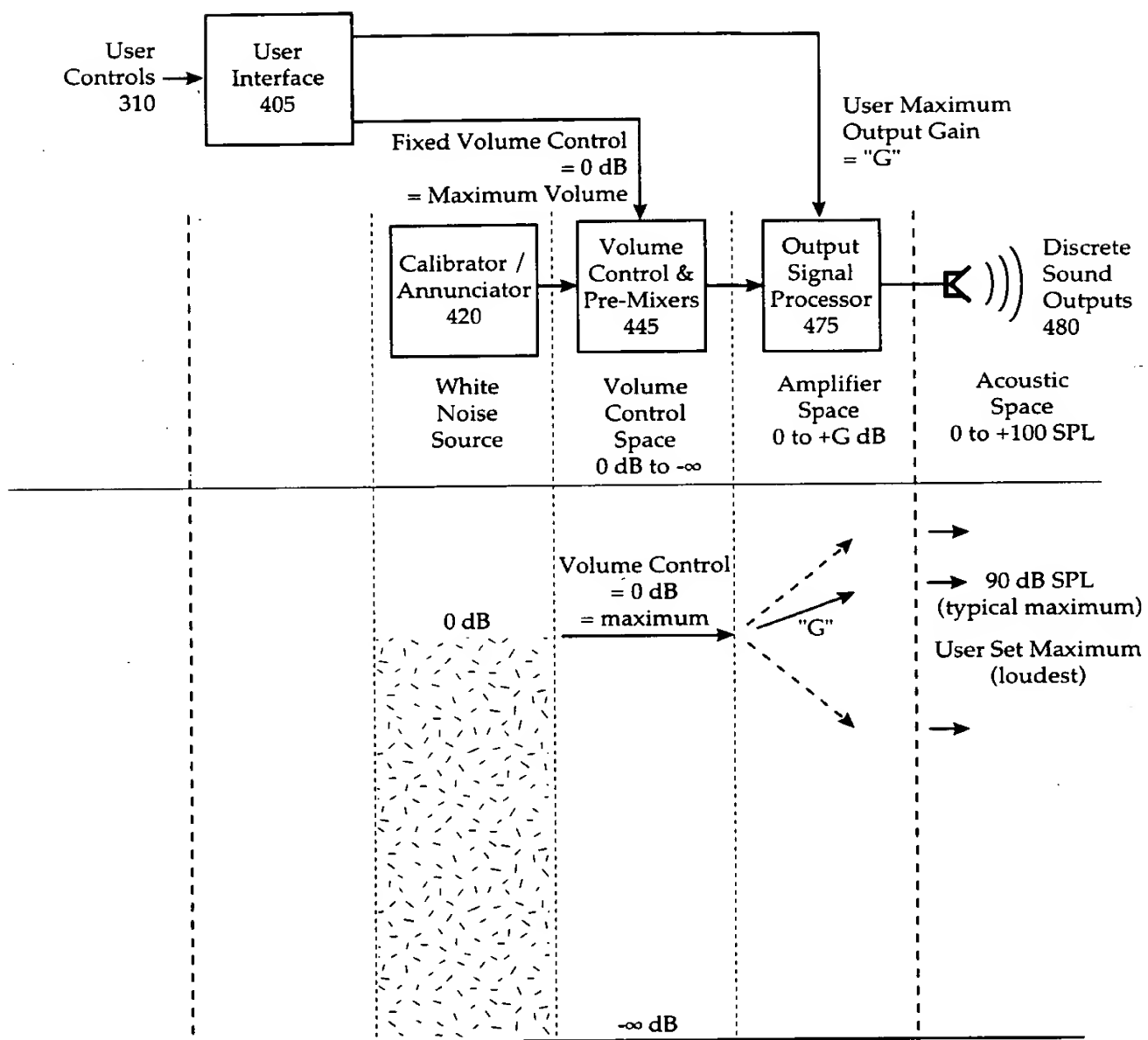


FIG. 64

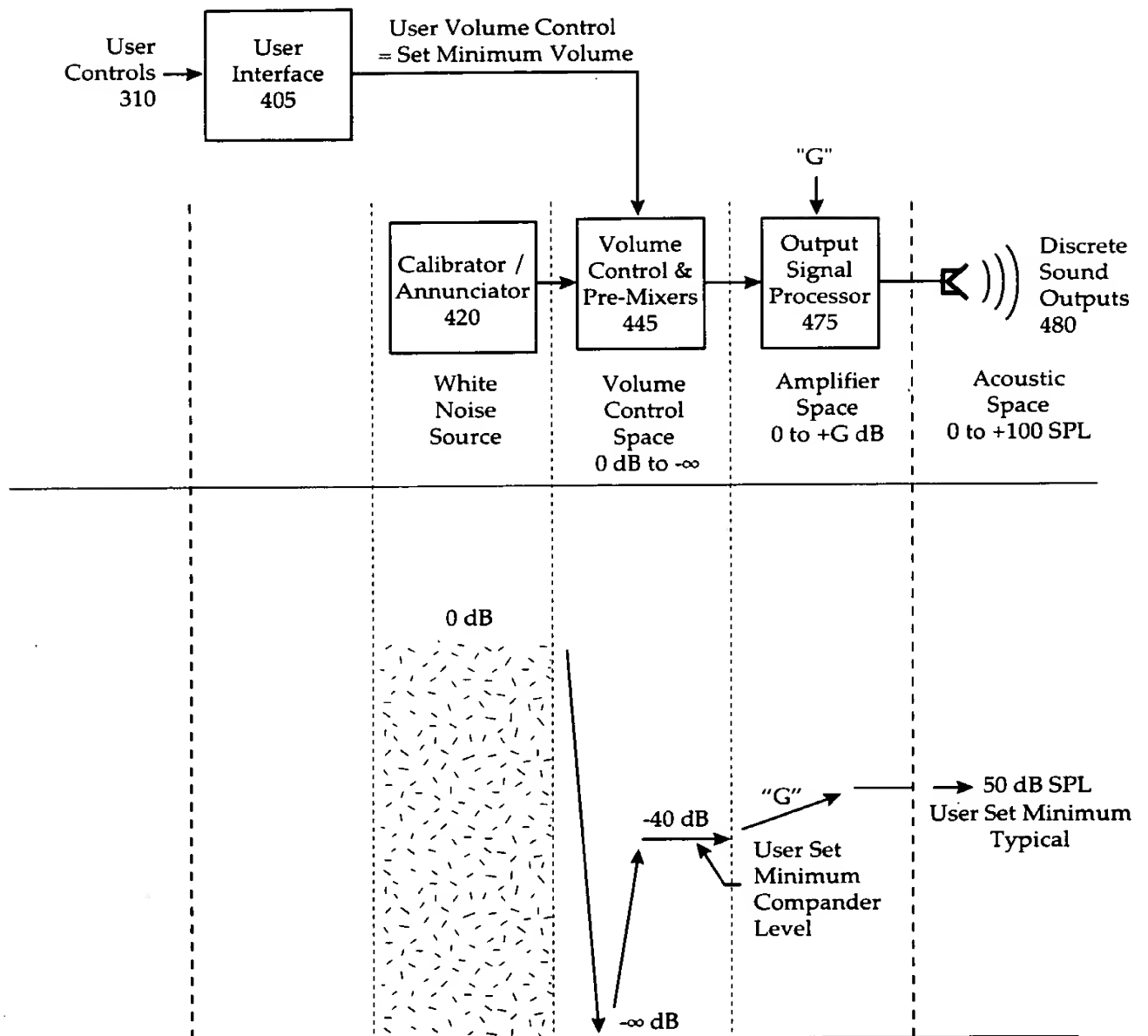


FIG. 65

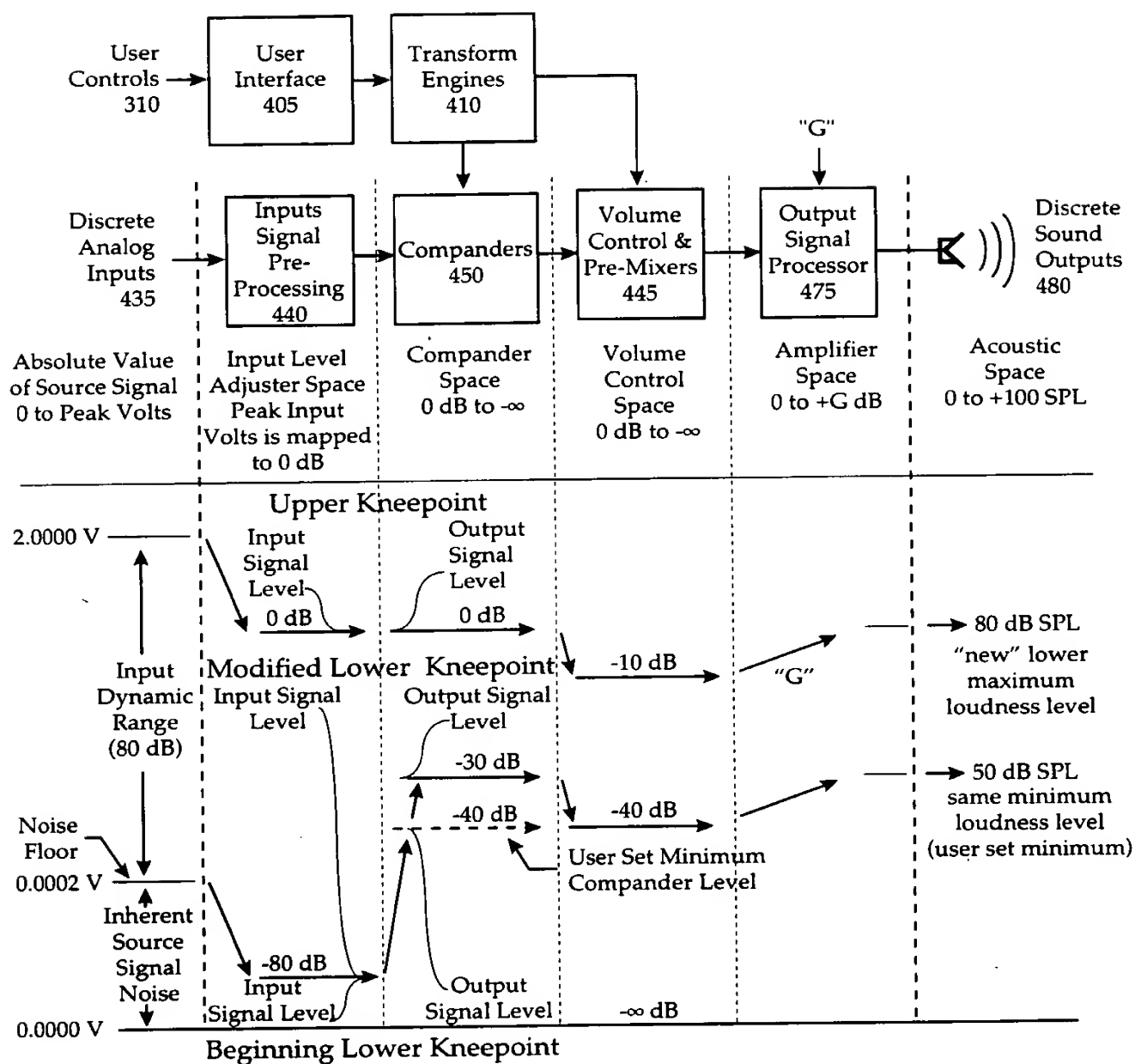


FIG. 66

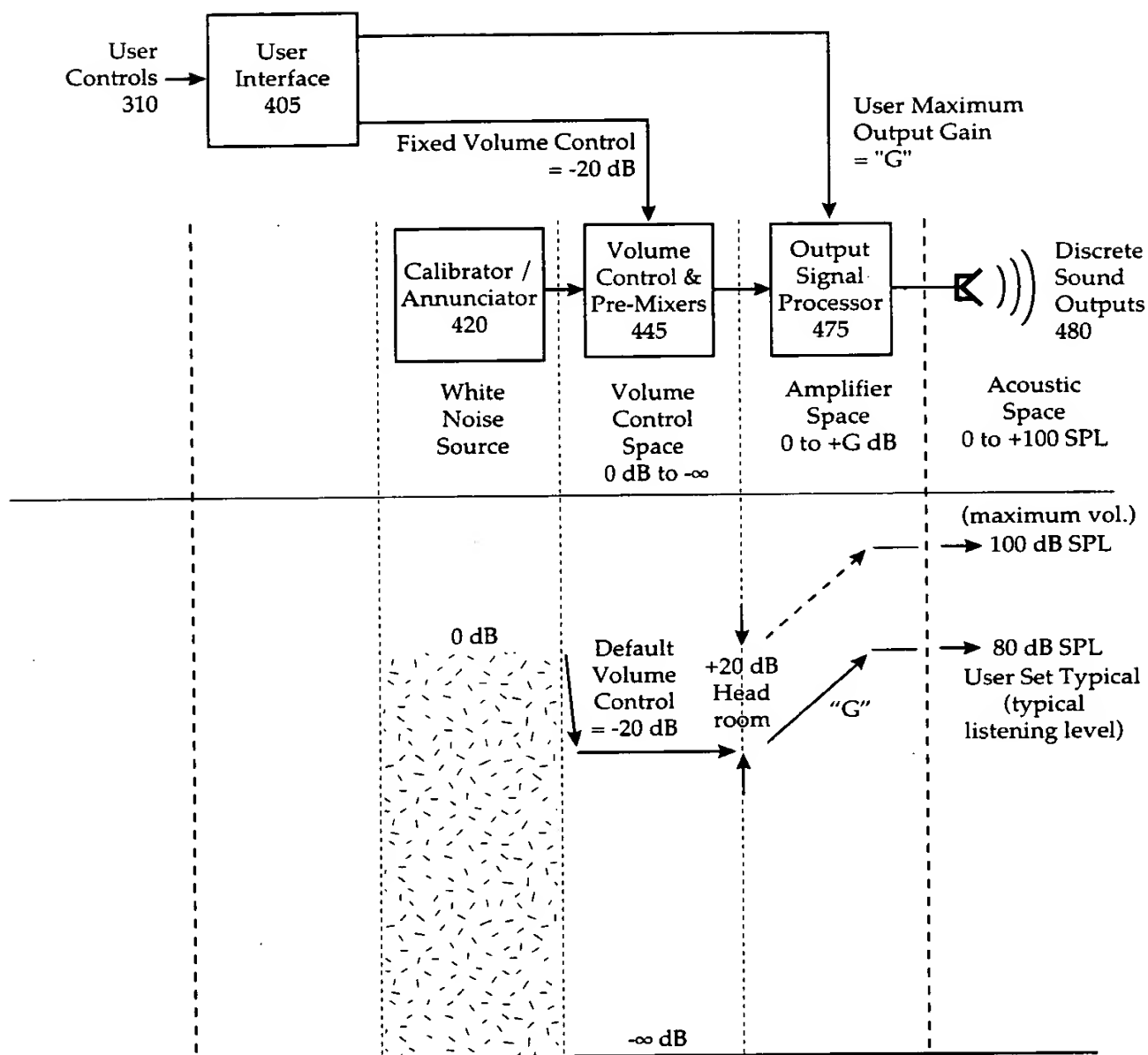


FIG. 67

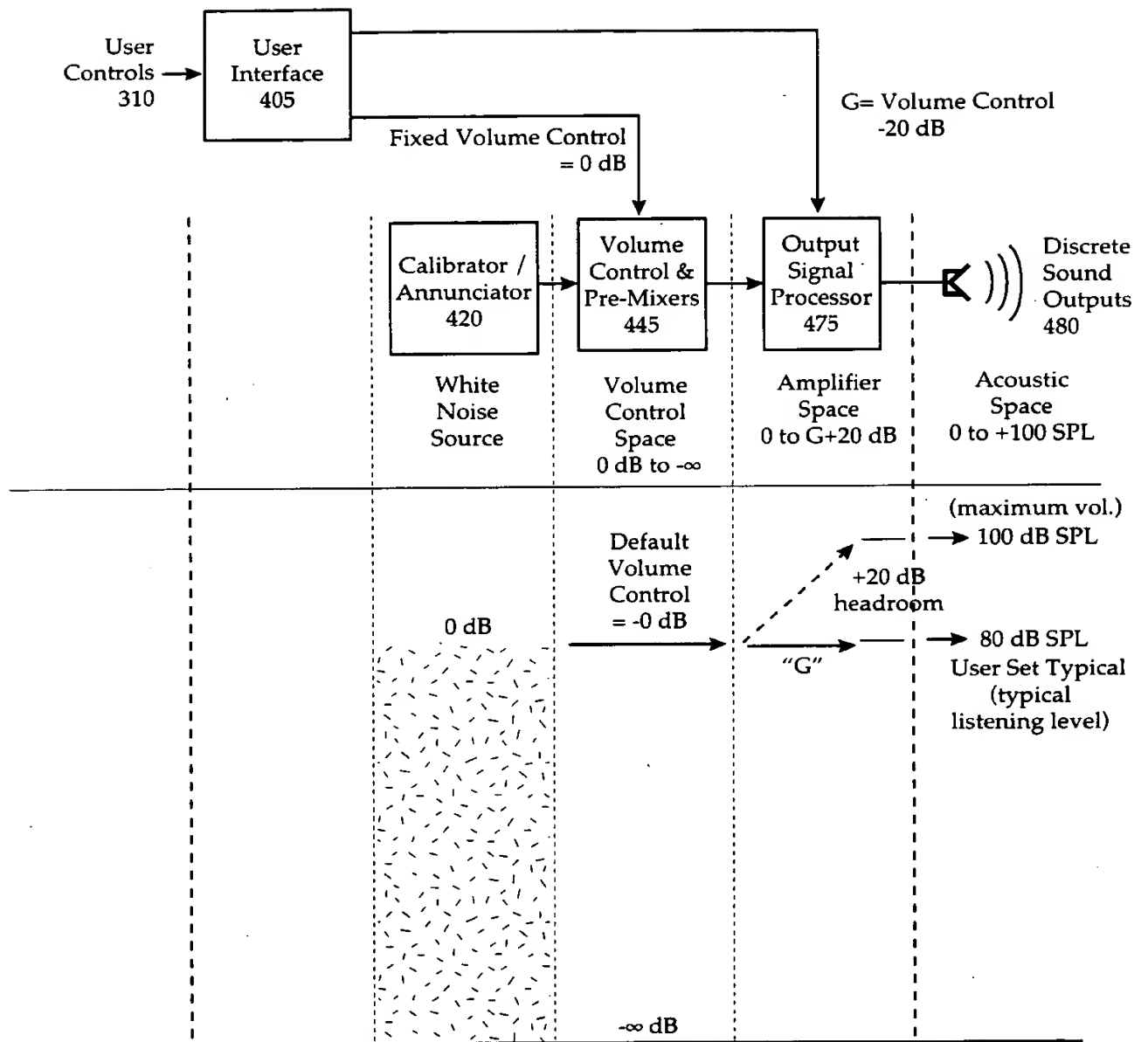


FIG. 68

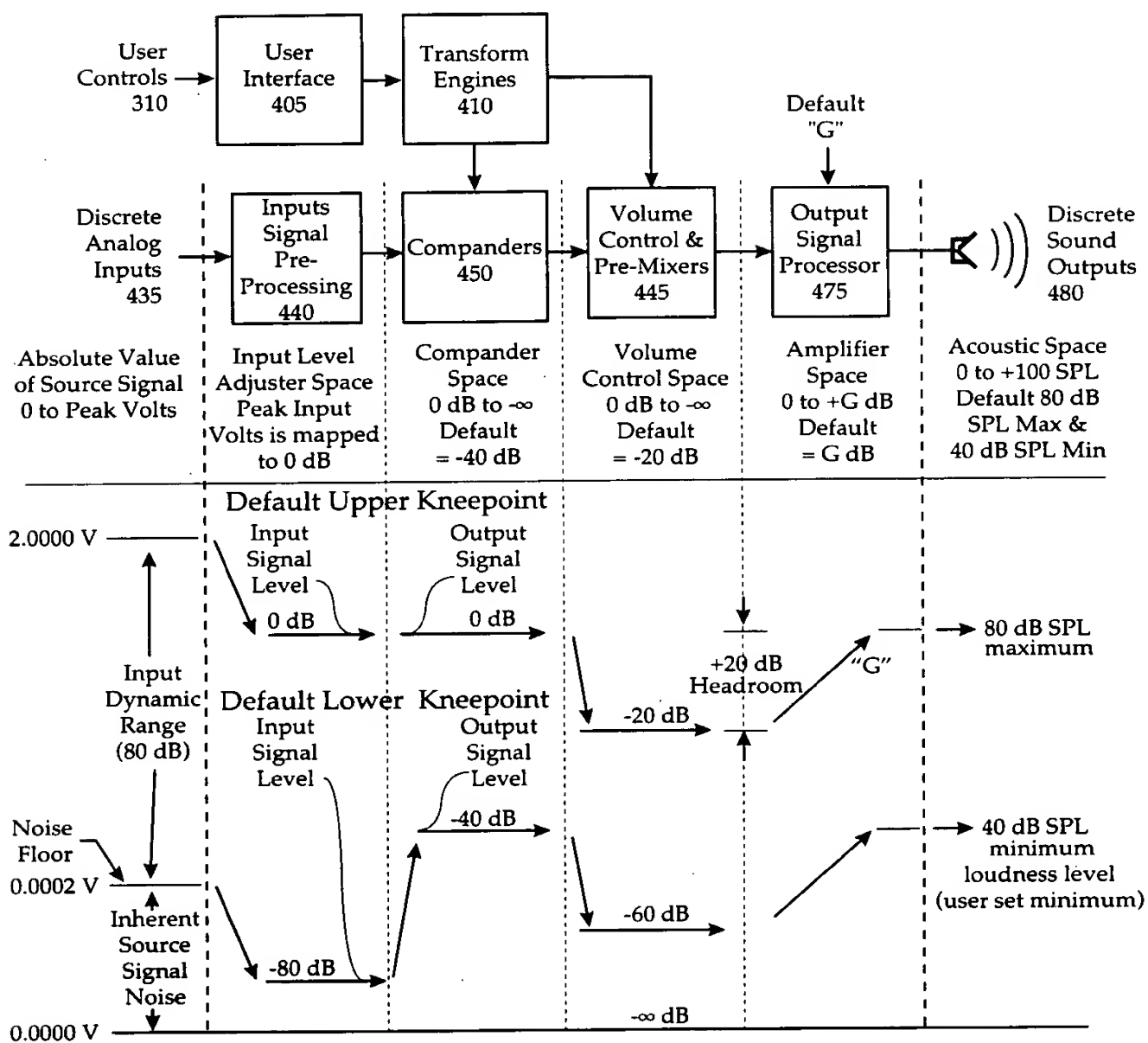


FIG. 69

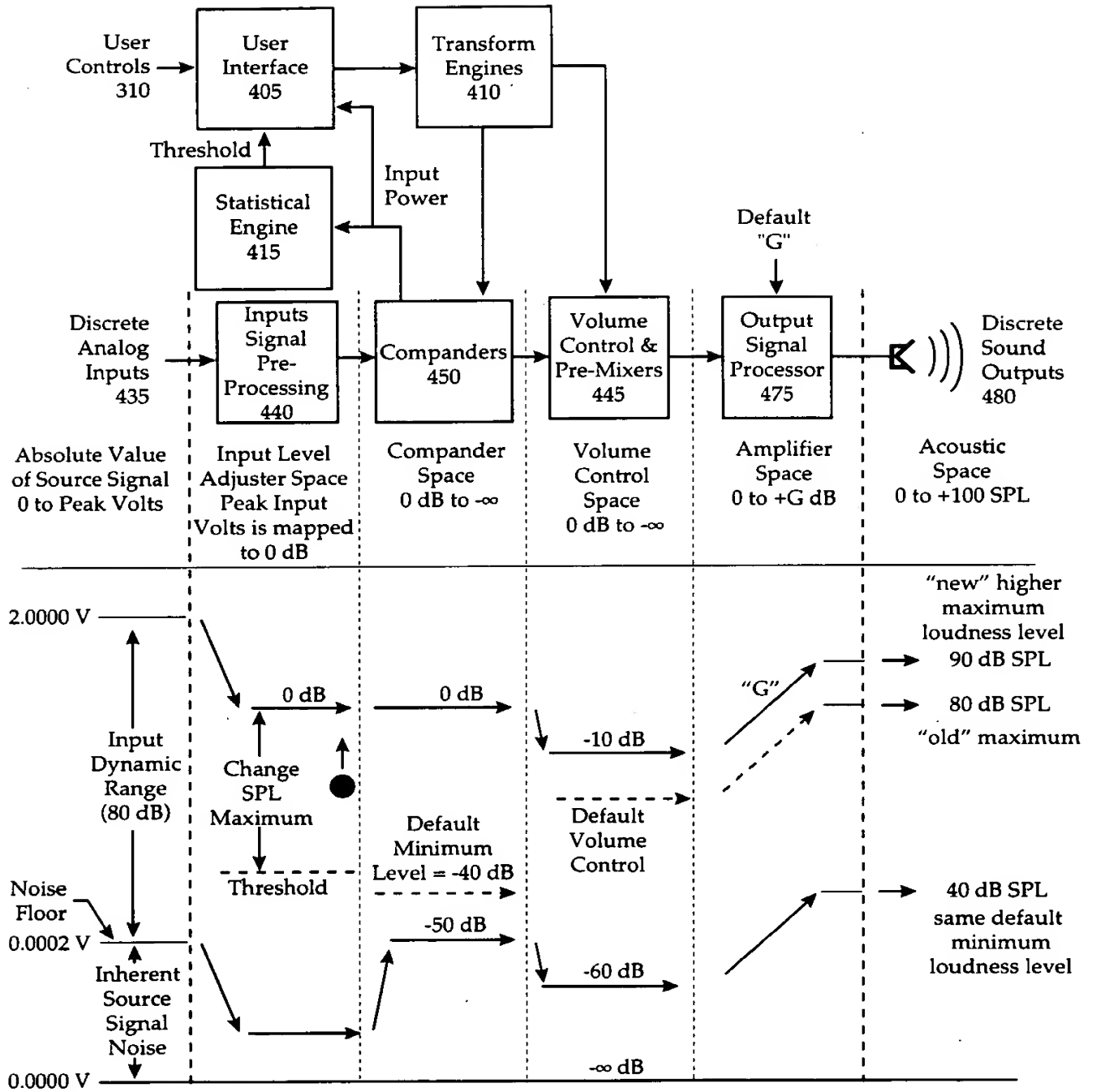


FIG. 70

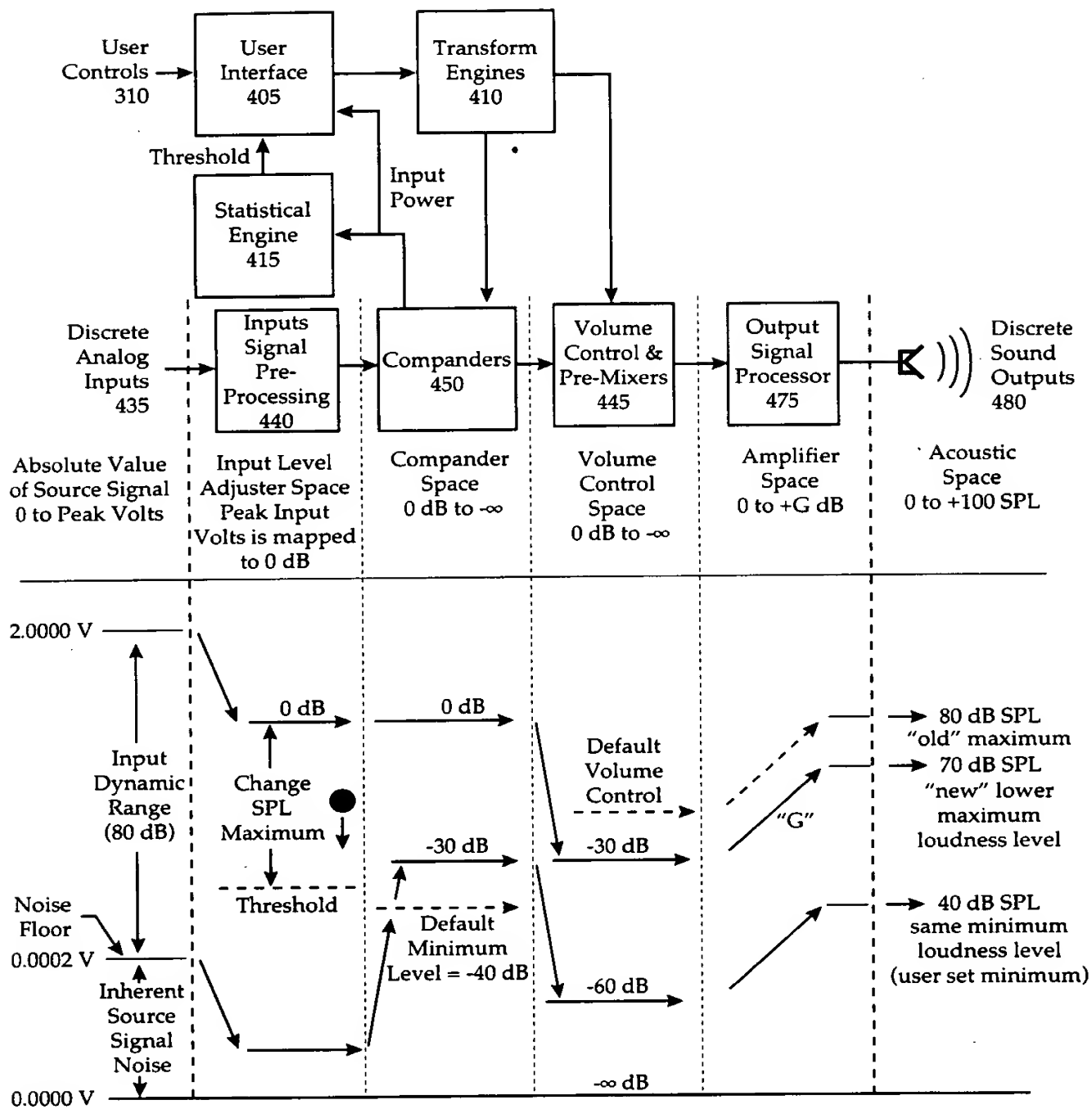


FIG. 71

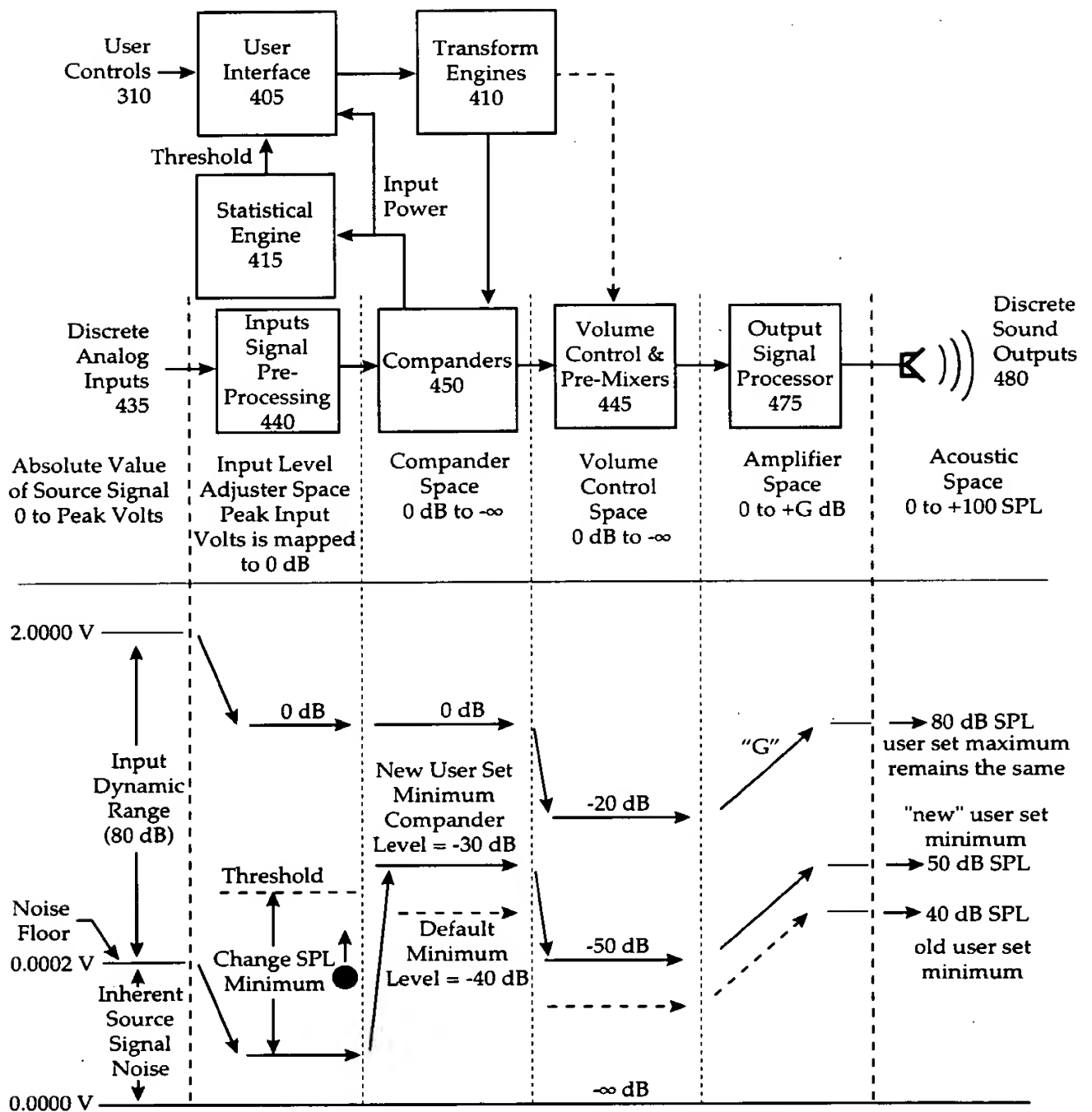


FIG. 72

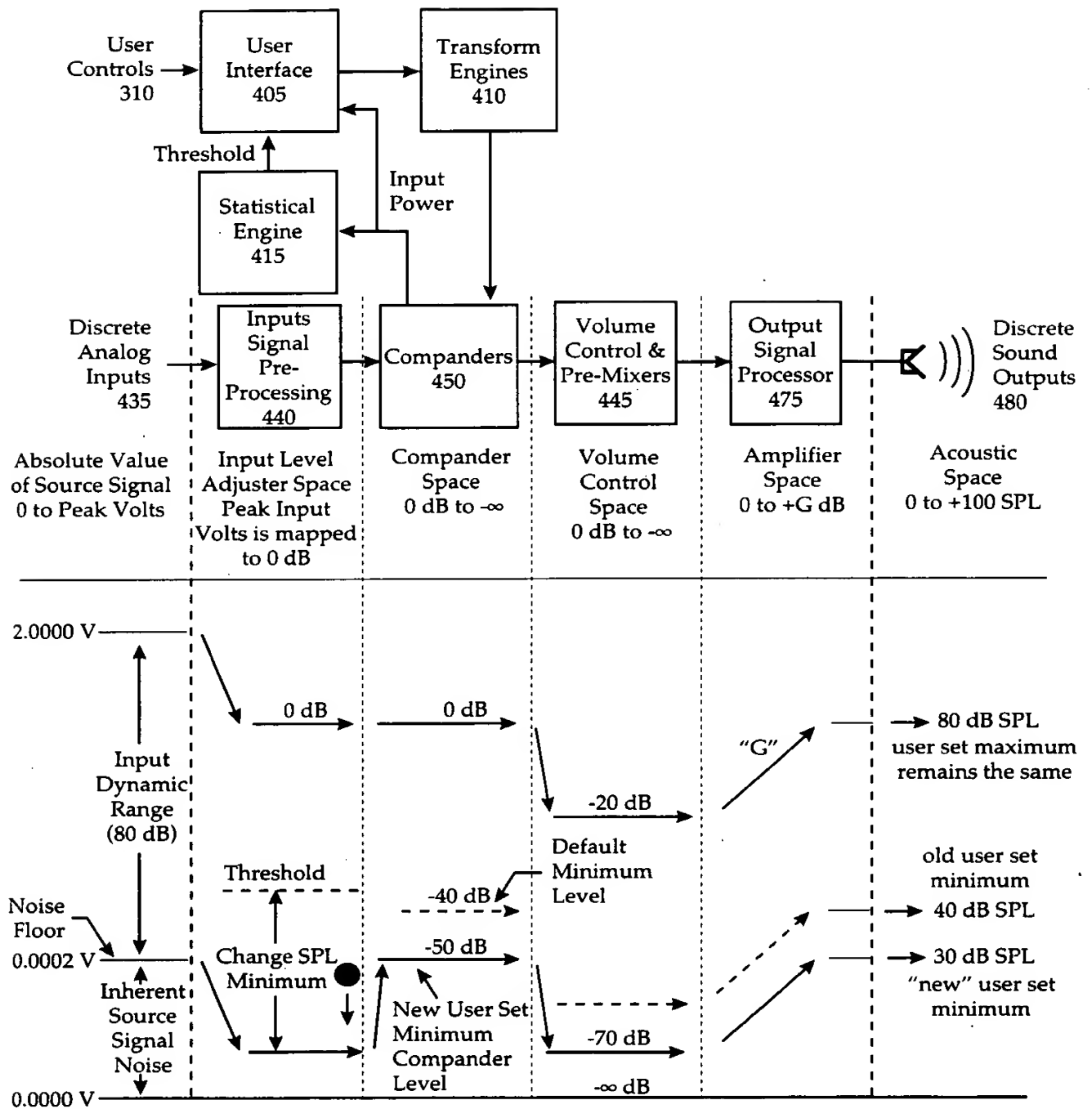


FIG. 73

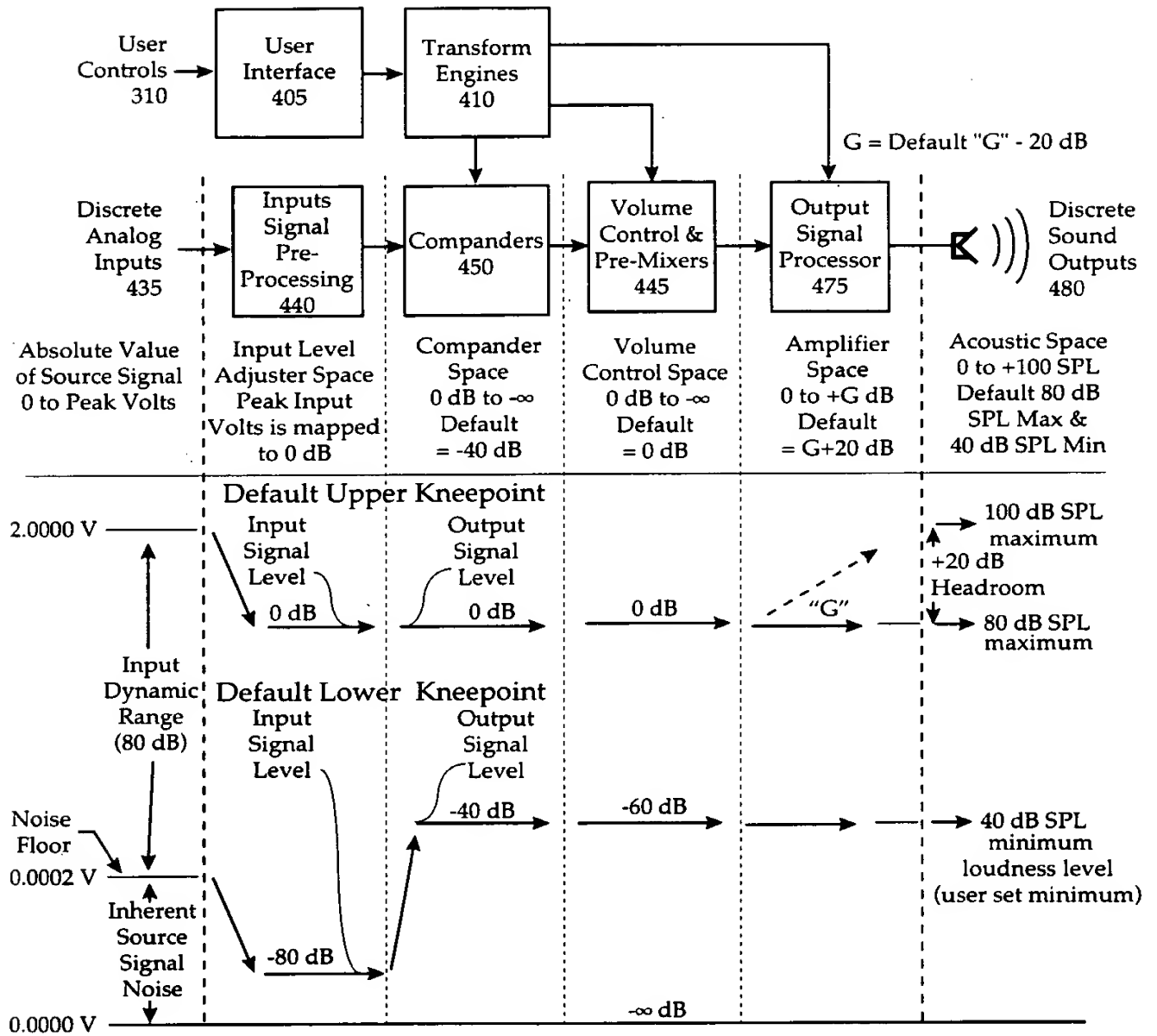


FIG. 74

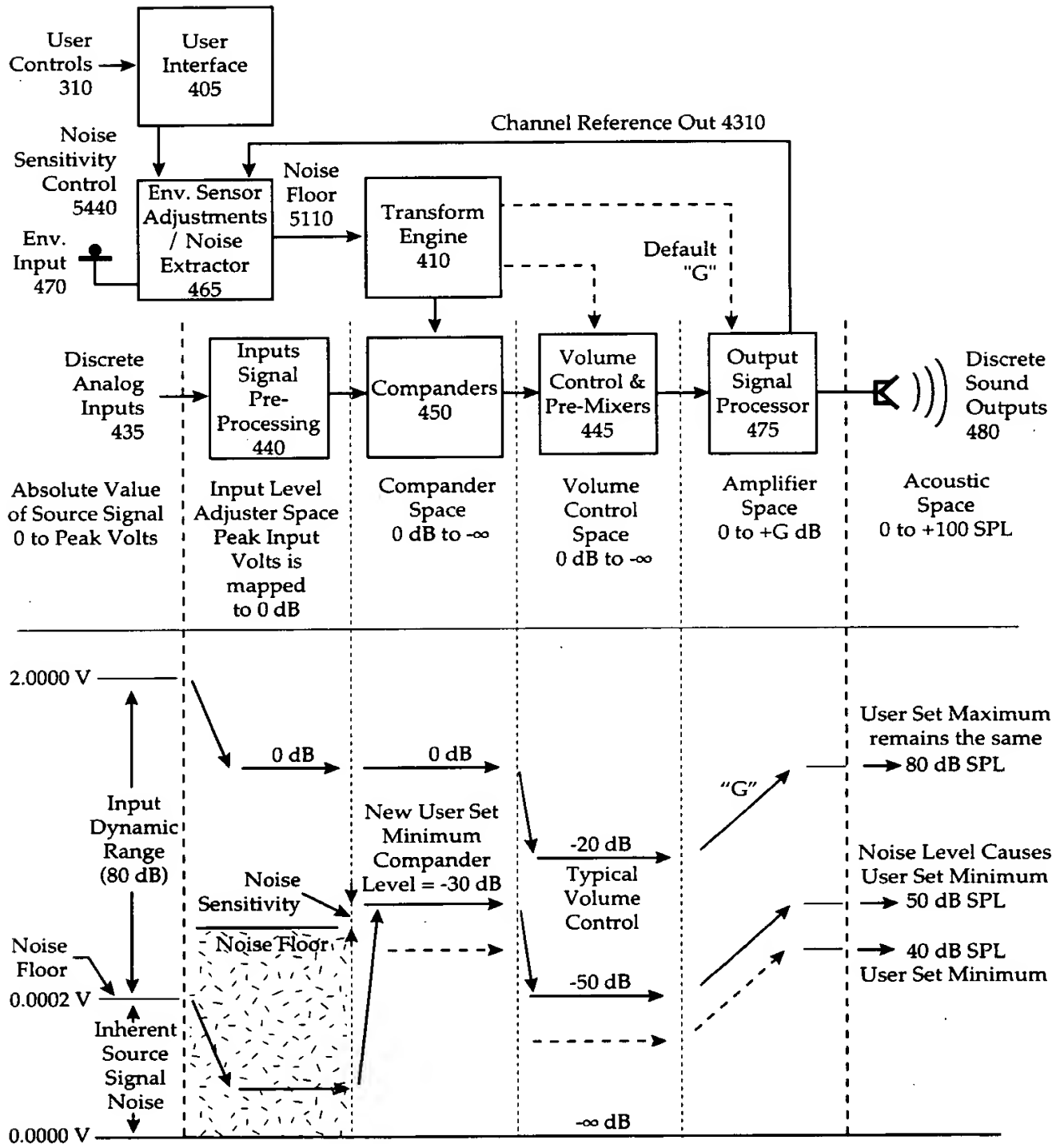


FIG. 75

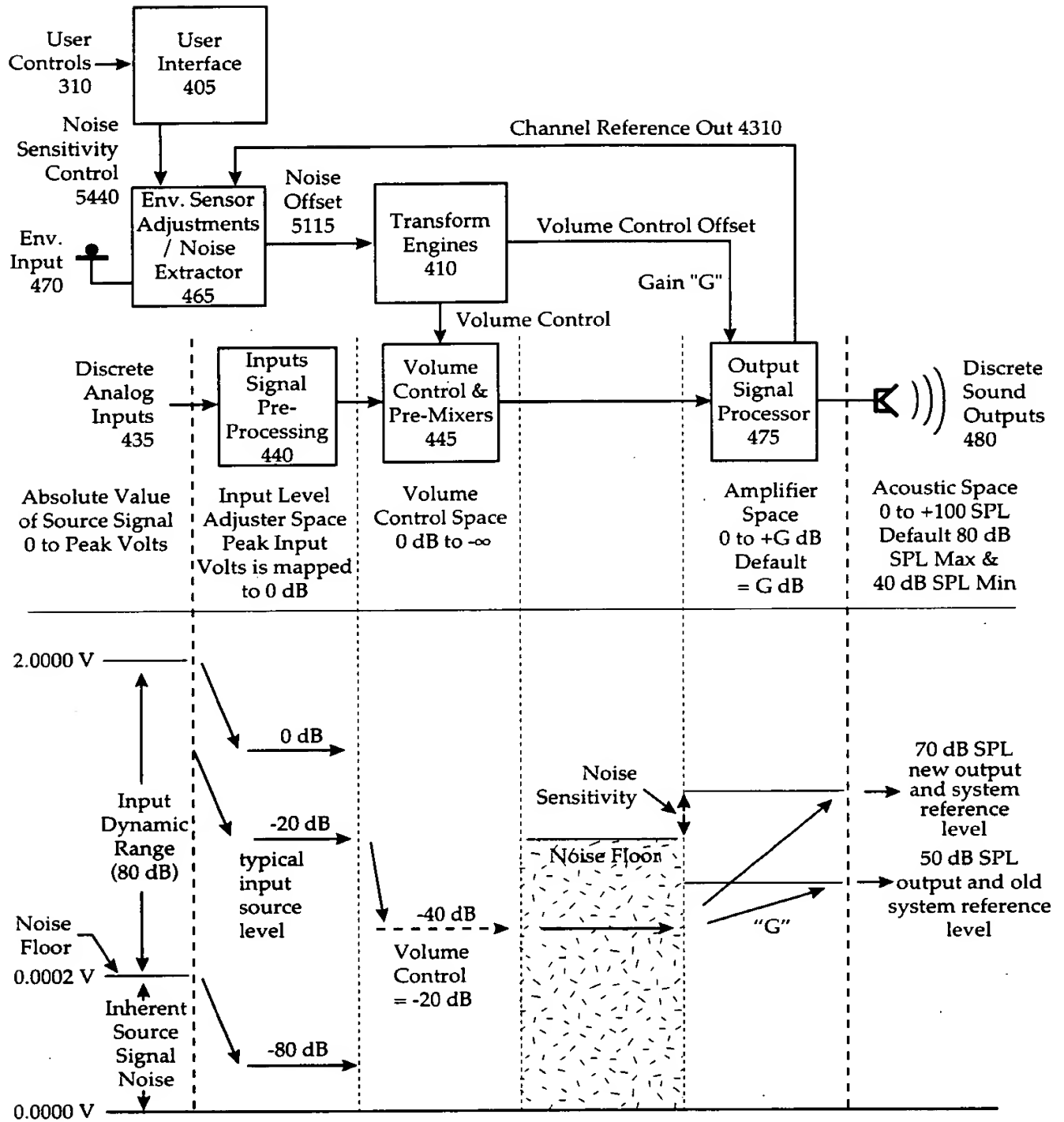


FIG. 76

Setup Command Decoder
and Setup Command Execute
660E and 660F

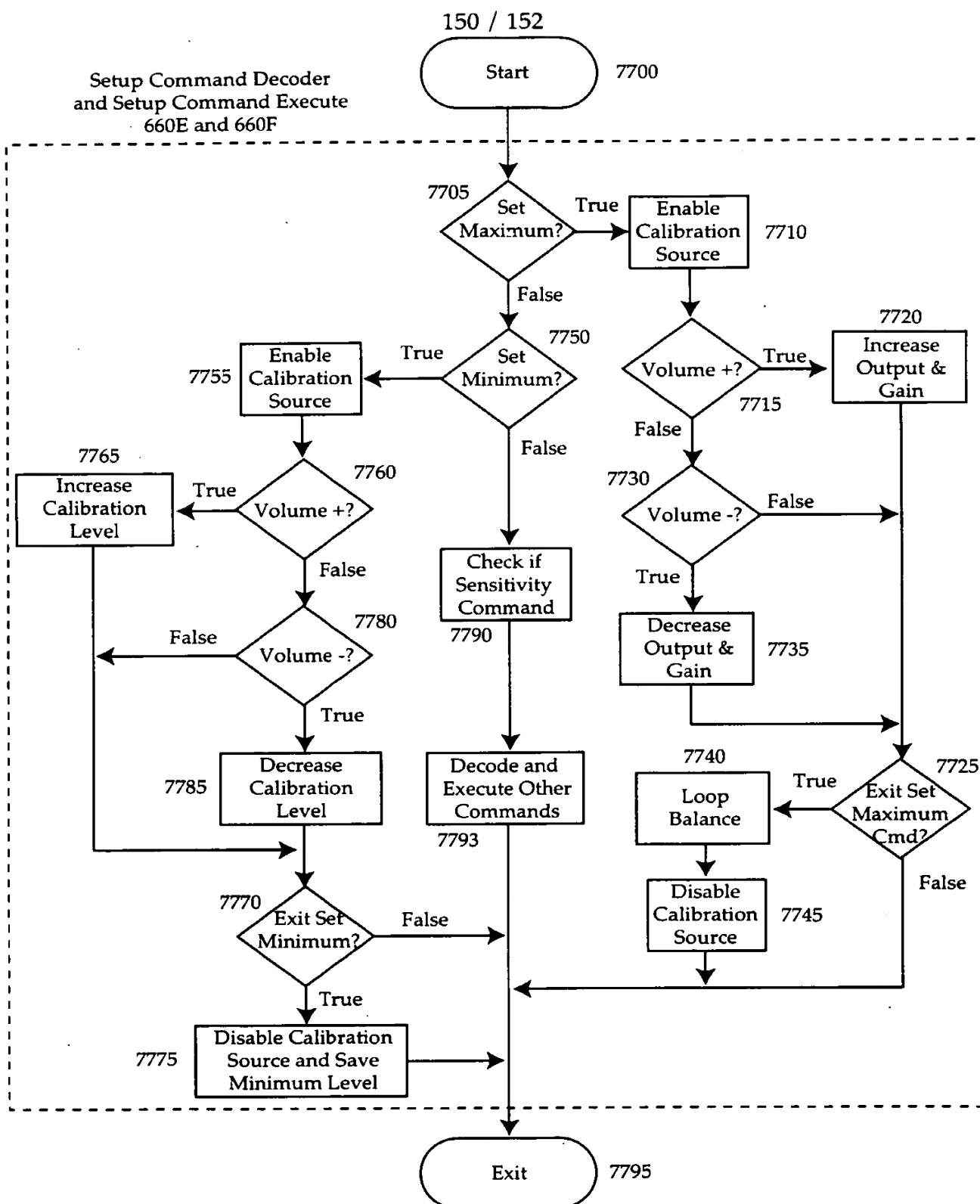


FIG. 77

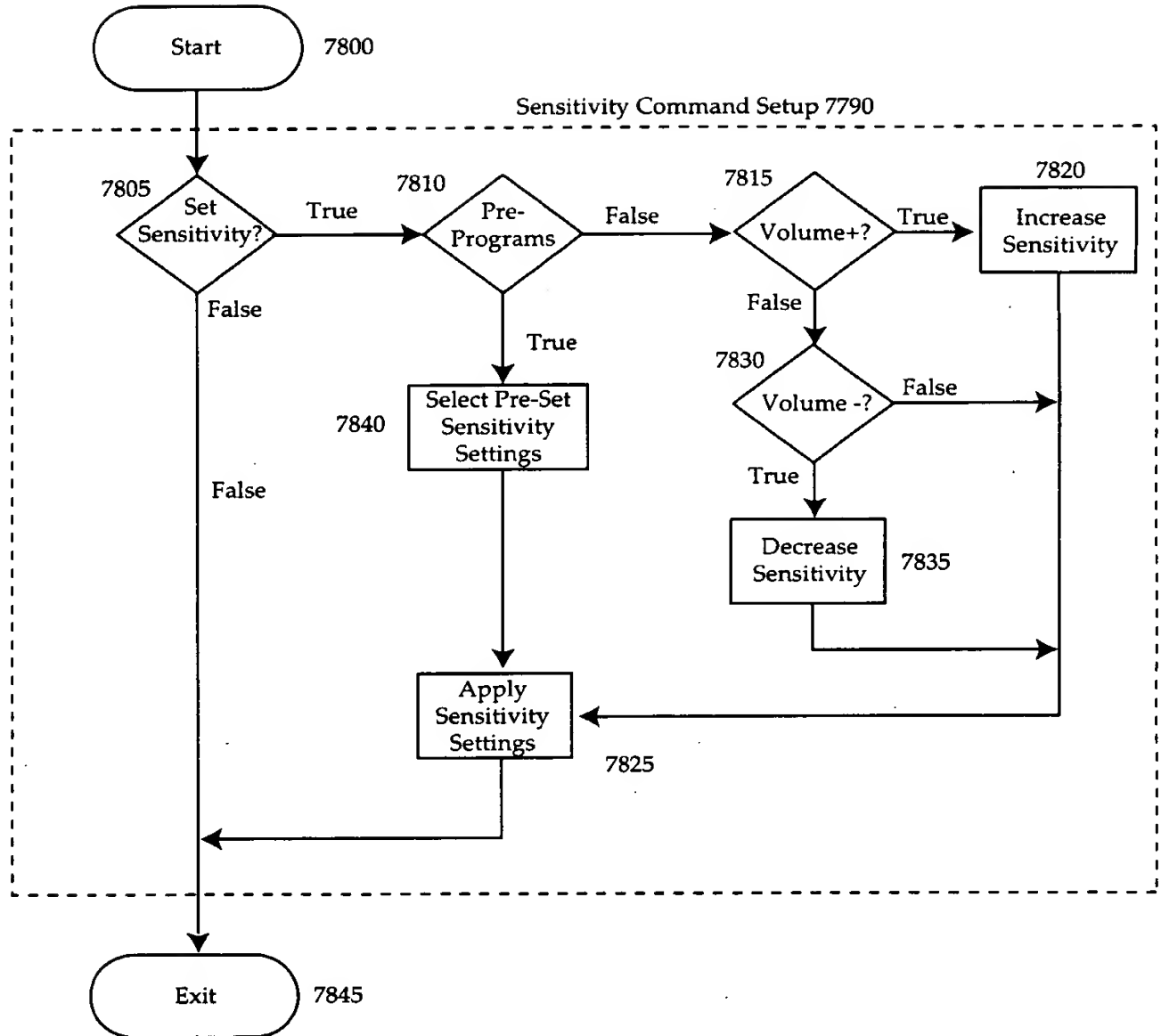


FIG. 78

Operation Command Decoder
and Operation Code Execute
660C and 660D

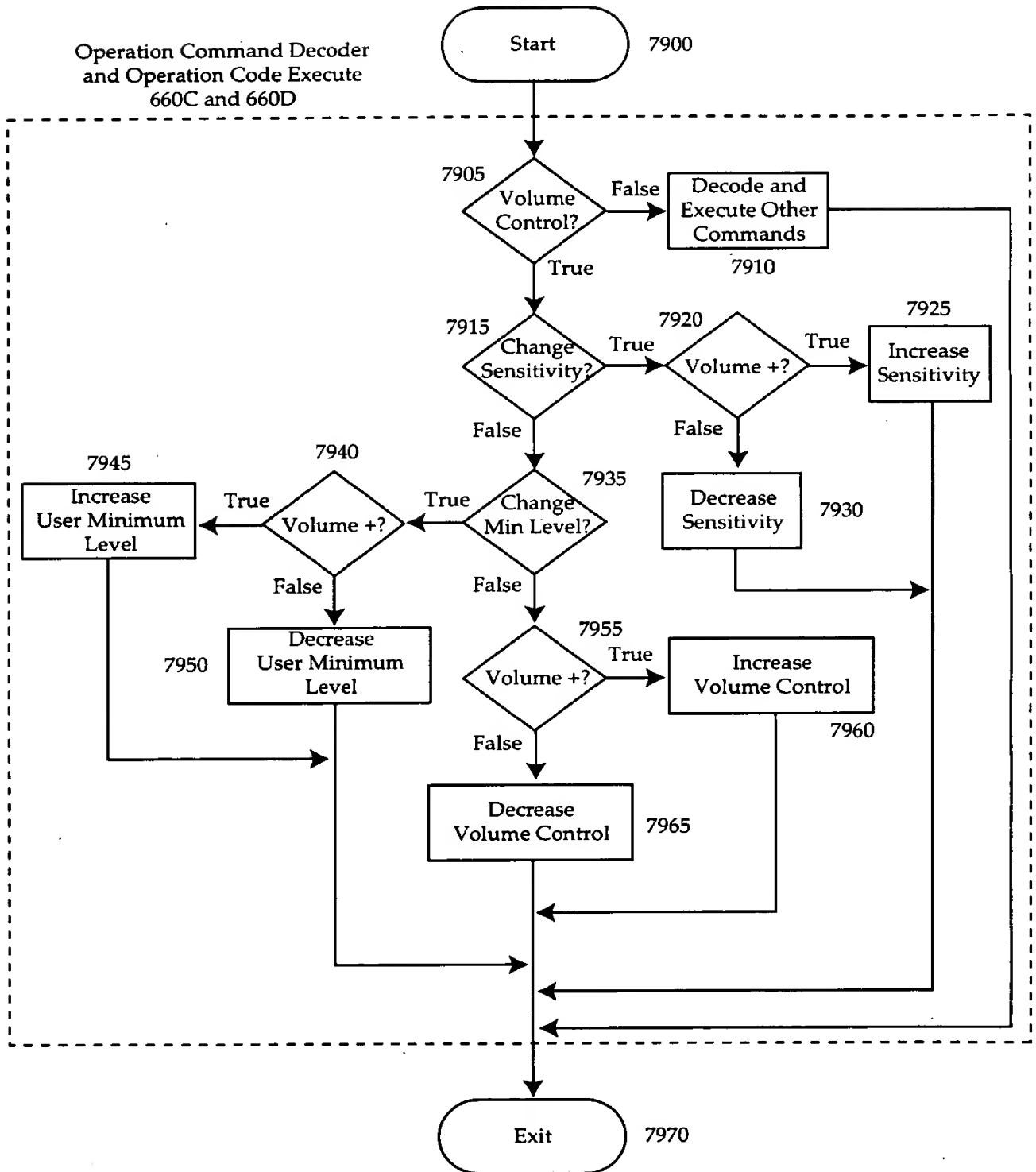


FIG. 79